# CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, February 2, 1905.

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## CIVIL SERVICE EXAMINATIONS FOR TECHNICAL POSITIONS.

Announcement is made in these columns from time to time of civil service examinations for technical positions. In all cases where the examinations are held by the United States Civil Service Commission, further information may be obtained by addressing the Secretary of that board at Washington, D. C.

ASSISTANT ELECTRICAL EXPERT AID.—An examination will be held at Navy Yard, Washington, D. C., on Feb. 17 to fill the position of Assistant Electrical Expert Aid in the Bureau of Construction and Repair, at $5.00 per day. Further information can be obtained by addressing Commandant, Navy Yard, Washington, D. C.

HIGHWAY ENGINEER.—U. S. Civil Service Commission will hold an examination Feb. 23 at various places throughout the country to secure eligibles to fill a vacancy in the position of civil engineer to act as Chief of the Division of Construction of the Office of Public Road Inquiries, Department of Agriculture, at $2,250 per annum, and vacancies as they may occur in any branch of the service requiring similar qualifications. The examination will consist of the subjects mentioned below, weighted as indicated: Experience and general training, 25; experience in highway engineering, 25; practical questions on highway engineering, 50.

ENGINEERING AND HYDROGRAPHIC AID.—U. S. Civil Service Commission will hold an examination March 15 at various points throughout the United States, to secure eligibles to fill the position of engineering and hydrographic aid. From the eligible list established by this examination names will be selected and appointments given for positions at $900 per annum and upward. The employment will be largely in connection with the construction of irrigation works in the West. An opportunity is afforded for graduates of colleges or technical schools to obtain engineering work in lines which may lead to future advancement.

## PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.), may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

| Bids close | Work. | Place. | On file. | See issue. |
|---|---|---|---|---|
| Feb. | | | | |
| 4 | Shears | Washington, D. C. | S. | 1- 5 |
| 4 | Latrine | Charleston, S. C. | S. | 1-12 |
| *4 | Dredging, docks | Chicago, Ill. | S. | 1-12 |
| *6 | Machinery | Washington, D. C. | S. | 1-12 |
| 6 | Bridges | Topeka, Kan. | P. | 1-12 |
| *8 | Barracks | Fort Slocum, N. Y. | P. | 1-26 |
| 11 | Crane runways | Boston, Mass. | S. | 1-19 |
| 11 | Electric elevator | Wash., D. C. | S. | 1-19 |
| *15 | Barracks | Ft. Wright, Wash. | P. & S. | 1-19 |
| *16 | Dredging | Detroit, Mich. | S. | 1-19 |
| 18 | Telephone system | Wash., D. C. | S. | 1-26 |
| 25 | Dredging | Washington, D. C. | S. | 2- 2 |
| 25 | Garbage incinerator | New York | S. | 2- 2 |
| Mar. | | | | |
| *17 | Dredge | St. Louis, Mo. | P. & S. | 1-19 |

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

## LIST OF CONTRACTS PENDING.

| Bids close. | Work. | Place. | See issue. |
|---|---|---|---|

### LIGHT, HEAT AND POWER PLANTS.

Feb. 2. Power boilers, Columbus, Ind. ..... Jan. 12
Feb. 3. Electric equipment, Coffeyville, Kan. ... Feb. 2
Feb. 6. Electric light system, Howard, Pa. ..... Feb. 2
Feb. 15. Generators, Chicago, Ill. ..... Dec. 22
Feb. 15. Electric engines, West Point, N. Y. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.
Feb. 15. Gas plant, Temple, Tex. ..... Jan. 26
No date. Incandescent lighting, Laconia, N. H. ... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.

### BRIDGES.

Feb. 2. Bridges, steel, Helena, Mont. ..... Jan. 23
Feb. 4. Bridges, Holton, Kan. ..... Feb. 2
Feb. 6. Bridge, North Yakima, Cal. ..... Feb. 2
Feb. 6. Riprapping, Minneapolis, Minn. ..... Feb. 2
Feb. 6. Bridge, Dayton, Nev. ..... Jan. 26
Feb. 6. Bridge, Santa Barbara, Cal. ..... Jan. 5
Feb. 6. Bridges, Topeka, Kan. ..... Jan. 12
Feb. 7. Bridges, steel, Muscatine, Ia. ..... Jan. 12
Feb. 7. Viaduct, Wabash, Ind. ..... Jan. 19
Feb. 7. Bridge, repair, Binghamton, N. Y. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 7. Bridge, Indianapolis, Ind. ..... Jan. 19
Feb. 7. Bridge, Stockton, Cal. ..... Jan. 19
Feb. 7. Bridge, Stevens Point, Wis. ..... Feb. 2
Feb. 8. Bridge, Vincennes, Ind. ..... Jan. 19
Feb. 8. Bridges, Phoenix, Ariz. ..... Jan. 19
Feb. 9. Bridge, repairs, Jersey City, N. J. ..... Feb. 2
Feb. 9. Bridge, New York, N. Y. ..... Feb. 2
Feb. 13. Bridges, Sherbrooke, N. Dak. ..... Jan. 26
Feb. 14. Bridges, stone, Napa, Cal. ..... Dec. 29
Feb. 14. Bridge, India ..... Jan. 26
Feb. 15. Bridge, iron, Saginaw, Mich. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 16. Bridge, Columbus, O. ..... June 23
Feb. 16. Bridge, truss, Charleston, W. Va. ..... Jan. 26
Advertised, Eng. News, Jan. 26.
Feb. 17. Bridge, superstructure, Port Clinton, O. .. Jan. 26
Feb. 17. Bridge, Port Clinton, O. ..... Jan. 26
Feb. 18. Bridge repair, Cincinnati, O. ..... Jan. 26
Feb. 20. Bridge, York, Neb. ..... Jan. 26
Feb. 20. Bridge, steel, Culpeper, Va. ..... Jan. 19
Feb. 21. Bridge, Kearney, Neb. ..... Feb. 2
Feb. 23. Bridges, Dover, Ont. ..... Feb. 2

### BUILDINGS.

Feb. 2. Fixtures, Lakewood, O. ..... Jan. 19
Feb. 2. Hot water heating, Atlantic City, N. J. ... Jan. 12
Feb. 3. Electric wiring, Atlantic City, N. J. ..... Jan. 26
Feb. 4. Academy, Canadaigua, N. Y. ..... Jan. 12
Feb. 4. Electric elevator, Nashville, Tenn. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 4. School alteration, Rockport, Mass. ..... Feb. 2
Feb. 4. Excavation, Washington, D. C. ..... Feb. 2
Feb. 6. Court house, Ocala, Fla. ..... Jan. 19
Feb. 6. Heating plant, Fort Mott, N. J. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Jan. 26.
Feb. 7. Post office, Nevada, Mo. ..... Dec. 29
Advertised, Eng. News, Dec. 29 and Jan. 5.
Feb. 7. Jail, Monticello, Miss. ..... Jan. 19
Feb. 7. Court house plans, Hillsboro, N. Dak. .... Jan. 23
Feb. 7. Armory, Flushing, N. Y. ..... Jan. 26
Feb. 8. High school, Baltimore, Md. ..... Feb. 2
Feb. 8. Barracks, Fort Slocum, N. Y. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Feb. 9. Barrack, Plattsburg, N. Y. ..... Jan. 19
Feb. 9. Coal shed, Tompkinsville, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 9. Post office, Natchez, Miss. ..... Jan. 12
Feb. 10. Barracks, etc., Fort Howard, Md. ..... Jan. 19
Feb. 10. Life-saving stations, Washington, D. C. .. Feb. 2
Feb. 10. High school, Springfield, Mass. ..... Feb. 2
Feb. 10. High school, Helena, Okla. ..... Feb. 2
Feb. 13. Twenty-one buildings, San Francisco, Cal. Jan. 23
Feb. 14. Steam heating, Batesville, Ark. ..... Jan. 12
Feb. 14. Armory, Binghamton, N. Y. ..... Jan. 26
Feb. 14. High school, Alhambra, Cal. ..... Feb. 2
Feb. 14. Schools, New York, N. Y. ..... Feb. 2
Feb. 15. Cold storage building, New York, N. Y. ... Feb. 2
Feb. 15. Academy building, Staunton, Va. ..... Feb. 2
Feb. 15. Memorial building, Cincinnati, O. ..... Feb. 2
Feb. 15. Steam heating, Chillicothe, O. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to 19.
Feb. 15. Barracks, Ft. Wright, Wash. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 9.
Feb. 20. Hospital, Albany, N. Y. ..... Feb. 2
Feb. 21. Post office, Westchester, Pa. ..... Jan. 5
Feb. 21. Plumbing, etc., Ft. Assiniboine, Mont. .. Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.
Feb. 23. Post office, Decatur, Ill. ..... Jan. 12
Feb. 23. Metal window frames, Wash., D. C. ..... Feb. 2
Feb. 25. Steam heating, Anniston, Ala. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 27. Post office, Columbia, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 28. Post office, Louisiana, Mo. ..... Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Mar. 1. Five buildings, Chattanooga, Tenn. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 23.
Mar. 2. Post office, Adrian, Mich. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 6. Court house, Greenwood, Miss. ..... Jan. 26
Mar. 6. Post office, Battlecreek, Mich. ..... Jan. 26
Mar. 7. Post office, Findlay, O. ..... Feb. 2
Mar. 8. Post office, Muskegon, Mich. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Mar. 13. Post office, Hammond, Ind. ..... Jan. 26
Mar. 14. Post office, Moberly, Mo. ..... Jan. 26
Mar. 15. Jail equipment, etc., Camden, N. J. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 20. Post office, Elizabeth, N. C. ..... Feb. 2
Mar. 21. Post office, Laredo, Tex. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.

### WATER SUPPLY AND IRRIGATION.

Feb. 6. Pump, well, Jacksonville, Fla. ..... Jan. 19
Feb. 7. Water-works, Chrisman, Ill. ..... Jan. 19
Feb. 7. Water-works, Glenwood, Mich. ..... Feb. 2
Feb. 8. Water pipe, South Bend, Ind. ..... Jan. 19
Feb. 9. Water supply system, Fort Keogh, Mont. .. Jan. 19
Feb. 10. Water system, Bishop, Cal. ..... Dec. 15
Advertised, Eng. News, Dec. 8 to 29.
Feb. 20. Pipe specials, Washington, D. C. ..... Feb. 2
Advertised, Eng. News, Feb. 2.
Feb. 22. Water-works, Schoharie, N. Y. ..... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Feb. 23. Water main extension, Portland, Me. .... Feb. 2
Feb. 23. Water-works, Tillamook, Ore. ..... Feb. 2

***Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.***

Mar. 1. Water-works, Chariton, Ia. ..... Jan. 26
Mar. 4. Water-works, Meeker, Colo. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to Mar. 3.

### SEWERAGE.

Feb. 3. Sewers, St. Bernard, O. ..... Jan. 19
Feb. 6. Sewer, Topeka, Kan. ..... Feb. 2
Feb. 6. Sewers, Houston, Tex. ..... Feb. 2
Feb. 7. Sewer, Los Angeles, Cal. ..... Jan. 5
Feb. 10. Sewer system, Bishop, Cal. ..... Dec. 15
Advertised, Eng. News, Dec. 8 to 22.
Feb. 14. Sewers, Bogota, N. J. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 9.
Feb. 14. Sewers, Cleveland, O. ..... Feb. 2
Feb. 15. Sewers, Havana, Ill. ..... Jan. 26
Feb. 15. Sewer system, Lunenburg, N. S. ..... Jan. 12
Feb. 15. Sewers, New Rochelle, N. Y. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to 26.
Feb. 15. Sewer, Marion, O. ..... Feb. 2
Feb. 16. Sewers, St. Bernard, O. ..... Jan. 26
Feb. 16. Sewers, Sullivan, Ind. ..... Feb. 2
Feb. 17. Sewers, Mamaroneck, N. Y. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 16.
Feb. 23. Sewerage, New Rochelle, N. Y. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 23. Sewers, New Rochelle, N. Y. ..... Jan. 26
Feb. 24. Sewers, pipe, Wilkesbarre, Pa. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 17.

### STREETS AND ROADS.

Feb. 2. Paving, Cincinnati, O. ..... Jan. 19
Feb. 4. Crushed stone and gravel, Bay City, Mich. Jan. 19
Feb. 4. Road, Sharon, Conn. ..... Jan. 26
Feb. 4. Planking, Seattle, Wash. ..... Jan. 26
Feb. 4. Grading, Lorain, O. ..... Jan. 26
Feb. 6. Sidewalks, cinder, Franklin Park, Ill. .... Jan. 19
Feb. 6. Paving, brick, Topeka, Kan. ..... Jan. 19
Feb. 6. Grading, etc., Astoria, Ore. ..... Feb. 2
Feb. 6. Paving, etc., Albany, N. Y. ..... Feb. 2
Feb. 6. Paving, etc., Worcester, Mass. ..... Feb. 2
Feb. 6. Boulevard, Marion, Ind. ..... Feb. 2
Feb. 7. Paving, asphalt, New York, N. Y. ..... Feb. 2
Feb. 7. Paving, brick, Webb City, Mo. ..... Jan. 12
Advertised, Eng. News, Jan. 12 and 19.
Feb. 7. Roads, Rensselaer, Ind. ..... Dec. 29
Feb. 7. Road, gravel, Franklin, Ind. ..... Jan. 26
Feb. 7. Sidewalks, cement, Broad Ripple, Ind. .. Jan. 26
Feb. 8. Paving, brick, Cleveland, O. ..... Feb. 2
Feb. 8. Paving, Mt. Gilead, O. ..... Feb. 2
Feb. 9. Walks, cement, Port Townsend, Wash. .... Jan. 26
Feb. 10. Boulevard, Indianapolis, Ind. ..... Feb. 2
Feb. 13. Paving, Kalamazoo, Mich. ..... Feb. 2
Advertised, Eng. News, Feb. 2.
Feb. 13. Paving, etc., Jacksonville, Fla. ..... Jan. 26
Feb. 14. Paving, New York, N. Y. ..... Feb. 2
Feb. 15. Grading, Leesville, La. ..... Jan. 26
Feb. 14. Road, Napa, Cal. ..... Dec. 29
Feb. 15. Macadamizing, Madison, Wis. ..... Jan. 19
Feb. 15. Grading, Cornwall, Conn. ..... Feb. 2
Feb. 15. Paving, Meadville, Pa. ..... Feb. 2
Feb. 16. Curbing, cement, Des Moines, Ia. ..... Feb. 2
Feb. 18. Grading, Washington, D. C. ..... Jan. 19
Advertised, Eng. News, Jan. 19.
Feb. 21. Paving, wood, New York, N. Y. ..... Feb. 2
Feb. 24. Road, York, Pa. ..... Feb. 2
Feb. 27. Paving, etc., Wilkesbarre, Pa. ..... Feb. 2
Advertised, Eng. News, Feb. 2 to 23.
Mar. 1. Road, Grass Valley, Cal. ..... Jan. 26

### MISCELLANEOUS CONTRACTS.

Feb. 2. Coal handling machinery, etc., Phila., Pa. Jan. 19
Advertised, Eng. News, Jan. 19 and 26.
Feb. 3. Driving piles, San Francisco, Cal. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 2.
Feb. 3. Dredging, Savannah, Ga. ..... Jan. 5
Advertised, Eng. News, Jan. 5 to Feb. 2.
Feb. 4. Shears, Washington, D. C. ..... Jan. 5
Feb. 4. Latrine, Charleston, S. C. ..... Jan. 12
Feb. 4. Dredging, docks, Chicago, Ill. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 4. Sea wall, wharf, etc., Hawaii. ..... Jan. 19
Feb. 4. Elevator, Washington, D. C. ..... Jan. 26
Feb. 4. Excavating, Washington, D. C. ..... Jan. 26
Advertised, Eng. News, Jan. 26.
Feb. 6. Sale of boilers, Boston, Mass. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 6. Street cleaning, Buffalo, N. Y. ..... Jan. 26
Feb. 6. Machinery, Washington, D. C. ..... Jan. 12
Advertised, Eng. News, Jan. 12.
Feb. 6. Repairing scows, New York, N. Y. ..... Feb. 2
Feb. 7. Wharf, New Orleans, La. ..... Feb. 2
Feb. 7. Wireless telegraph, Washington, D. C. .. Feb. 2
Feb. 7. Hydraulic dredge, Toronto, Ont. ..... Jan. 26
Feb. 7. Wharf repairs, Fort Totten, N. Y. ..... Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 9.
Feb. 7. Machine tools, Washington, D. C. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Feb. 8. Dam and bridges, Phoenix, Ariz. ..... Dec. 1
Advertised, Eng. News, Dec. 1 to Feb. 5.
Feb. 8. Steam vessel, Seattle, Wash. ..... Jan. 26
Feb. 9. Pneumatic tube systems, Ottawa, Ont. .. Feb. 2
Feb. 9. Dike work, New York, N. Y. ..... Feb. 2
Feb. 11. Pier extension, dredging, etc., Ireland. Jan. 19
Feb. 11. Crane runways, Washington, D. C. ..... Jan. 19
Feb. 11. Electric elevator, Washington, D. C. .... Jan. 19
Feb. 11. Canal, Columbus, O. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Feb. 13. Garbage collection, Atlantic City, N. J. .. Jan. 26
Feb. 13. Tubular boiler, Asbury Park, N. J. .... Jan. 26
Advertised, Eng. News, Jan. 26 and Feb. 2.
Feb. 14. Wire, drills, etc., Washington, D. C. .... Jan. 19
Feb. 14. Machinery, Washington, D. C. ..... Jan. 19
Feb. 14. Tunnel, Boston, Mass. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 15. Rubbish incinerator, New York, N. Y. ... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 15. Stone crushers, Washington, D. C. ..... Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Feb. 15. Dredging, Chicago, Ill. ..... Dec. 15
Advertised, Eng. News, Dec. 15.
Feb. 16. Dredging, Detroit, Mich. ..... Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 16.
Feb. 16. Wharf work, San Francisco, Cal. ..... Jan. 26
Feb. 16. Garbage collect'n & disposal, Chicago, Ill. Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 17.
Feb. 17. Embankment, San Francisco, Cal. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.
Feb. 18. Telephone system, Washington, D. C. .... Jan. 26
Feb. 18. Dredging, New Orleans, La. ..... Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 16.

Feb. 20. Tramways, England.....Jan. 26
Feb. 21. Piles, Washington, D. C.....Jan. 26
Feb. 21. Machine tools, Washington, D. C.....Jan. 26
Feb. 21. Portland cement, Cincinnati, O.....Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 16.
Feb. 23. Window frames, Washington, D. C.....Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 23.
Feb. 23. Portland cement, etc, Newport, R. I.....Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 23.
Feb. 23. Dredging, bridges, Dover, Ont.....Feb. 2
Feb. 25. Dredging, Washington, D. C.....Feb. 2
Feb. 25. Garbage incinerating plant, New York..Feb. 2
Feb. 25. Lock, Cincinnati, O.....Jan. 26
Advertised, Eng. News, Jan. 26 to Feb. 23.
Feb. 27. Filling and grading, Hartford, Conn....Feb. 2
Advertised, Eng. News, Feb. 2 and 9.
Mar. 6. Electric tramcars, etc, South Africa....Jan. 12
Mar. 6. Railway tunnels, Penn., N. J., and N. Y. Ry.....Feb. 2
Advertised, Eng. News, Feb. 2.
Mar. 7. Steel rails, fish plates, Australia.....Jan. 19
Mar. 7. Ditches, Storm Lake, Ia.....Feb. 2
Advertised, Eng. News, Feb. 2 to Mar. 3.
Mar. 8. Filtration plant, Pittsburg, Pa.....Feb. 2
Advertised, Eng. News, Feb. 2.
Mar. 15. Dam, Los Angeles, Cal.....Jan. 12
Advertised, Eng. News, Jan. 12 to Feb. 23.
Mar. 17. Dredge, St. Louis, Mo.....Jan. 19
Advertised, Eng. News, Jan. 19 to Feb. 10.
Mar. 31. Electric railway, China .....Oct. 20
Advertised, Eng. News, Oct. 20 to Dec. 29.
Apr. 1. Dredging, Sweden .....Nov. 24
Apr. 10. Channel improvement, Bermuda .....Jan. 26
Advertised, Eng. News, Feb. 2.
May 1. Light house, Egypt .....Dec. 22

## RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

ALABAMA.—It is reported from Tumlin, Ga., that the Vanderbilt Timber, Mining & Southwestern Railway is building an extension from Hopewell, Ala., to Wedowee, Ala., 30 miles, and that it is proposed to build 93 miles from the latter point to Montgomery, Ala.

ARKANSAS.—There probably will be 372 miles of new track laid in this state during 1905. Reports state that this mileage has been contracted for.

ARKANSAS SOUTHERN.—Construction work is in progress on the first 9½ miles of the extension of this road from Winnfield to Alexandria, La., 44½ miles. Tracklaying is to begin at once. H. C. Brown, Ruston, La., is Pres.

DENVER & RIO GRANDE.—This company is stated to have amended its articles of incorporation to permit the building of two extensions. One of the new branches will run from Howard, Colo., and the other extension will be from Sargents to Tomichi. E. J. Yard, Denver, Colo., is Ch. Engr. The line may be extended also from Florence to Rockvale.

DONALDSONVILLE & NAPOLEONVILLE.—M. D. Bringier, Vice-Pres. and Gen. Mgr., Donaldsonville, La., writes us that proposed line will be 68 miles long, extending from Johnson to Gibson, La., via Vacharie, Thibodeaux, Houma & Ashland. Noted Jan. 5.

GOBLE, NEHALEM & PACIFIC.—T. F. Stanley, Pres., Portland, Ore., states that this company has built a 2-mile extension during the past year and that it is proposed to build from the present terminus to the Nehalem River, near Pittsburg, Ore., a distance of 20 miles. At the present time the road is used for logging purposes. In time it is proposed to build into the Nehalem Valley and eventually to Tillamook Bay, Ore.

GULF COAST LINE.—G. M. Magill, Bay City, Tex., states, according to a report, that route from Bay City eastward will be determined soon and contracts will be let soon afterward. This company was formerly known as the St. Louis, Brownsville & Mexico. J. N. Miller is Gen. Mgr., at Corpus Christi, Tex.

IONE & EASTERN.—It is proposed to build from Martels to Amador, Cal., seven miles, and from Martels to Jackson, 4½ miles. H. E. C. Feusier, 311 Rialto Bldg., San Francisco, Cal., is Ch. Engr. Details noted on Aug. 25.

KANAWHA & POCAHONTAS.—The line, it is reported, probably will be extended from Rattlesnake, W. Va., to Deepwater Junction, eight miles. O. A. Veazey is Ch. Engr., at Pratt, W. Va.

KETTLE RIVER VALLEY.—Company plans to build from a point on the proposed line to Quilchena, B. C., near Vernon, in a southerly direction to the international boundary between British Columbia and the state of Washington, and from a point on the line to be constructed from Fire Valley to Quilchena, westerly and northerly, to a point on the line of the Canadian Pacific Ry. This line is operated by Kettle Valley Line. H. W. Warrington, Grand Forks, B. C., is Ch. Engr. and Supt.

LIBERTY-WHITE RY.—Extensions will be built this year. Six miles of narrow-gage track will be laid on the Louisiana Line branch. From Liberty, Miss., the railway may be extended, according to W. M. White, Gen. Mgr., to Baton Rouge, La., or Natchez, Miss. Charles Treas, McComb City, Miss., is Ch. Engr.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—In 1904 an extension of 266 miles was built from Glenwood, Minn., north to Emerson, on the Canadian boundary, where connection was made with the Canadian Pacific. It has been announced that early in the spring another extension of 291 miles will be built from Thief River Falls, Minn., directly west across the Red River Valley to Kenmare, N. D., a point on its present western main line to Moose Jaw, Assa. Thomas Green, Minneapolis, Minn., is Ch. Engr.

NEVADA.—The Pacific Coast Borax Co., of which F. M. Smith is Pres., will construct a railroad from Gaggett to the Death Valley and from there on to Tonopah, following the proposed Tonopah Tidewater railroad, which he is to construct. It is the intention to have the proposed railroad connect with the San Pedro, Los Angeles & Salt Lake Ry. at Soda Lake (post office, Wadsworth).

State Senator Williams purposes building a standard-gage road from Hazen, on the line of the Central Pacific, to Fallon, a distance of 18 miles. The new road will connect with the Southern Pacific at Hazen.

NEVADA-CALIFORNIA-OREGON.—Surveys are reported being made for an extension from Madeline, Cal., to Alturas, 40 miles. George S. Oliver, Reno, Nev., is Ch. Engr.

OREGON RY. & NAVIGATION CO.—A branch from Tekoa, Wash., into the Coeur d'Alene Indian reservation is planned. J. H. Robb, Tekoa, is Dir. Engr. M. of W.

OREGON.—This year, it is reported, there will be built about 220 miles of new track, or work will have been started. The projects are as follows: Columbia River & Oregon Central, Arlington to Condon, 38 miles; The Great Southern, The Dalles to Dufur, 30 miles; Pendleton Southern, Pendleton to Heppner, 45 miles; Portland Southern Electric, Portland to Salem, 52 miles; Rogue River Valley Railway, Medford to Prospect, 45 miles; Oregon Traction Co., electric, Portland to Forest Grove, 26 miles; Portage road, Celilo to The Dalles, 12 miles.

OREGON & SOUTHEASTERN.—G. B. Hengen, Vice-Pres., 15 William St., New York, informs us that surveys have been made and right of way and capital secured for 8½-mile extension from Wildwood to Bonita, Ore. Company will construct the line itself. A. B. Wood, Cottage Grove, Ore., is Ch. Engr.

OREGON SHORT LINE.—It is announced that the Malad Valley Ry. will be extended to Malad, Idaho, from Garland, Utah, a distance of 30 miles. Mosiah Evans, Mgr. Utah Sugar Co., at Garland, Utah, is interested. Surveys are said to have been run.

OREGON.—A standard-gage railway will be built in Hood River valley. Chas. T. Early, of the Oregon Lumber Co., which is behind the enterprise, states that construction work probably will begin early in the spring if available route is located. Cost is estimated at $15,000 to $20,000 per mile until uplands are reached, where expense will not be so great.

PENNSYLVANIA RY.—We are informed by SPARKS & EVANS, 14 South Broad St., Philadelphia, that they have been awarded the contract for masonry, street bridge abutments, foundations, and retaining walls for elevating company's tracks in Camden, N. J., which was erroneously reported last week as having been let to Drake & Stratton. The contractors have commenced work.

PENNSYLVANIA, NEW JERSEY & NEW YORK.—Bids are asked until March 6 for the construction of tunnels under Bergen Hill, New Jersey. A. J. County, Secy. Pennsylvania, New Jersey & New York R. R. Co., 85 Cedar St., New York. (Advertised, Engineering News.)

PERE MARQUETTE.—William Cotter, Gen. Mgr., at Detroit, Mich., has announced, according to press report, that the Pere Marquette system will spend $2,500,000 for new equipment, betterments and improvements this year, in the work of changing the line into an integral part of a great trunk system. For the Buffalo division the following improvements are planned: Larger yards at St. Thomas, Sarnia, Blenheim and Walkerville, Ont., the construction of 40 new passing tracks; building of new slip and dock on the Canadian side of the Detroit River, above Walkerville. A $200,000 freight house will be erected at Chicago. F. H. Alfred, Detroit, is Ch. Engr.; G. F. Bristol is Engr. Bldgs.

RED RIVER & SOUTHWESTERN.—At recent meeting held at Fort Worth, Tex., the stockholders of this company took steps to begin construction. W. B. Worsham and W. H. Featherstone, of Henrietta, and Sam Davidson, of Fort Worth, are interested; 30 miles have been graded from Henrietta to Archer City.

SANTA FE, PRESCOTT & PHOENIX.—The Phoenix & Eastern line will be extended from Dudleyville, Ariz., to Benson, 85 miles, it is said. Extension from Winkleman to Dudleyville, four miles, is now in course of construction. W. A. Drake is Ch. Engr., Prescott, Ariz. Victor Morawetz, 59 Cedar St., New York, is Gen. Counsel.

SILVERTON RY.—Edward E. Gilman, Supt., states that extension to Ouray, Colo., may be begun this year. O. Mears, Denver, is Pres.

ST. JOSEPH, ALBANY & DES MOINES.—Right of way has been secured and route surveyed. Forty miles of track will be built first between Winterset and Des Moines, Ia. This company was incorporated last summer with $800,000 capital. F. S. Mordaunt, 107 Washington St., Chicago, Pres., is reported as stating that "the company will have 180 miles of main line track from St. Joseph, Mo., to Des Moines, Ia., with a 20-mile extension into coal fields in Iowa and 30 miles of sidings; total, 230 miles; grade, 1%; rails, 80-lb. The company is thoroughly financed, the money is ready for construction, and the second corps of engineers is in the field." Estimated cost of construction is placed at $8,500,000. E. O. Seesions, 425 Monadnock Block, Chicago, is said to be Engr.

ST. LOUIS, EL RENO & WESTERN.—T. L. Wolf, Auditor, at Guthrie, Okla., has announced that arrangements will be made soon to extend this railway from Guthrie to Peru, Kan., where connection will be made with the Missouri Pacific Ry. Another extension will be made from El Reno to Hobart. W. P. Homan, Guthrie, is Gen. Mgr.

TENNESSEE CENTRAL.—L. F. Lonnbladh, Ch. Engr., Nashville, Tenn., informs us that nothing definitely has been decided upon yet regarding extensions from Nashville to Birmingham and from Crossville to Pikeville, Tenn., noted on Jan. 12. No surveys have been made.

TEXAS CITY TERMINAL.—C. W. Lewis, Supt. and Ch. Engr., Texas City, Tex., states that the company contemplates building from Texas City Junction to a connection with the Gulf, Colorado & Santa Fe Railway at Fairwood, Tex., four miles.

TENNESSEE, GEORGIA & SOUTH CAROLINA.—Plan to build this road has been revived. Frederick A. Johnston, of Chicago, is the promoter. Anderson, S. C., has voted $50,000 of bonds toward construction.

TENNESSEE INDUSTRIAL RY.—An election will be held at Centreville, Tenn., on March 11 to vote on question of Hickman County subscribing $100,000 of 2% bonds for this road.

WASHINGTON.—The Salzer Valley Lumber Co., of Centralia, Wash., will build two miles of logging road.

WISCONSIN.—Hugo Loewenbach, of Milwaukee, Wis., is interested in project to build a belt line about that city.

YOUNGSTOWN & SOUTHERN.—Reports state that this line will be extended from Columbiana, O., to East Liverpool, 28 miles. It is also proposed to build from Columbiana via Leetonia, to Salem, 10 miles. George Tod, Jr., is Ch. Engr., Youngstown, O.

## STREET AND ELECTRIC RAILWAYS.

*The names of parties awarded contracts are printed in capital letters.*

MILFORD, MASS.—As soon as weather permits the Milford & Uxbridge Street Ry. Co. will reconstruct a six mile section of its line, between Milford and Holliston. It is intended later to put in new rails as far as South Framingham, a distance of 12 miles. E. W. Goss is Mgr., City.

ITHACA, N. Y.—Contract for construction of Cayuga Heights extension of the Ithaca Street Railway has been awarded to SYRACUSE CONTRACTING CO.

CANAJOHARIE, N. Y.—Board of Trade is considering a proposition made by New York parties to build and operate an electric railway between this place and Milford.

BATH, N. Y.—The construction of the electric line between Hammondsport and Hornellsville is said to be assured. The route is surveyed and right of way secured, and arrangements for the incorporation of the company as the Hornellsville & Lake Keuka Electric Ry. Co., are now being made.

JOHNSTOWN, PA.—The ordinance granting a franchise to Arbutus Park Street Ry. Co. has been favorably reported from committee in Councils. This line proposes to build a line through Seventh and past Arbutus Park to Geistown.

POTTSVILLE, PA.—Surveys are in progress for new trolley extension out Nichols St. to St. Clair and Shenandoah. Construction work will be begun as soon as frost is out of ground.

KEYSER, W. VA.—The Keyser, Burlington & Petersburg Electric Ry. Co. is planning to begin construction work about April 1 on its proposed line. The power plant and the repair shops will be located at Keyser. The Keyser, Petersburg and nearby towns will be connected by about 42 miles of standard-gage single track. B. W. Wright, Cumberland, Md., is Secy.

ASHEVILLE, N. C.—Press reports state that within the next 30 days contracts will be let for electric railway to be built from this city into the mining district of Madison and Yancey Counties, North Carolina. George D. Miles Co.

SUMPTER, S. C.—The Sumpter Electric Light & Power Co. has been incorporated, with a capital of $25,000. M. Beale, of Lewisburg, and J. L. Almett and H. E. Wilson, of Sumpter, are interested.

PENSACOLA, FLA.—W. H. Murphy and W. E. Anderson have petitioned the Council for a street railway franchise.

BIRMINGHAM, ALA.—Official announcement made by Birmingham Railway, Light & Power Co. that will be spent this year in extending and improving the property.

YAZOO CITY, MISS.—This city desires to grant a franchise over its streets for an electric street railway to the person making the best proposition therefor. A copy of proposed franchise, with blanks for insertion of rate of gage, etc., will be furnished on application to E. J. Poursine, Cy. Clk.

MONROE, LA.—Mayor Forsythe and the traction committee of City Council have entered into a contract with H. S. Doyle, Mgr., WESTERN ELECTRICAL CO. of St. Louis, for his company to build and equip the electric car line that is to be owned and operated by the city. Work is soon to begin, and will be completed within six months. The cost of the plant and equipment is not to exceed $100,000. The line as agreed on will be about seven miles in length.

VERSAILLES, KY.—The Woodford County Fiscal Court has granted to Clifford D. Beebe, of Syracuse, N. Y., a franchise and right of way for an electric railway through this county from Lexington via Versailles to Frankfort.

WASHINGTON C. H., O.—City Council has granted a franchise to the Springfield, Charleston, Washington C. H. & Chillicothe Traction Co. through the city.

MARYSVILLE, O.—It is planned to build an electric railway from Springfield to Marysville, where connections will be made with a line to Columbus, also one to Delaware or Marion. From Marysville the promoters plan to build a line to Lima via Kenton. W. G. Hanford and W. H. Halloway, of Springfield, are interested.

BLOOMDALE, O.—The Toledo, Bowling Green & Southern Traction Co. have made a proposition to Bloomdale Council for the extension of their road from Jerry City via Bloomdale to Fostoria. W. Nusbaum is Ch. Engr.

TOLEDO, O.—The Ottawa Park Street Ry. Co. has been incorporated with $10,000 capital by John Kumler, J. F. Kumler, Jr., Langdon and Fred. Kumler and H. F. Brough. This is the road which will build an electric line from city limits to Ottawa Park and for which County Commissioners granted a franchise.

AKRON, O.—Dr. H. S. Davidson, of Barberton, one of the incorporators of the Wadsworth & Western Traction Co., announces that the company has interested sufficient eastern capital to build a line from Barberton to Wadsworth and another line between Barberton and Akron. The new company was incorporated in Columbus for $10,000.

CHURUBUSCO, IND.—The Town Council has granted to the proposed Fort Wayne & Goshen Electric Ry. Co., a franchise through the streets of the town. Work on the road must begin within ten months.

LAFAYETTE, IND.—The Lake Erie & Western Railroad has decided to install electricity on a number of its lines in Indiana. Building operations will be begun in the spring. It is stated that orders have already been placed for the construction of electric cars, and that a complete system entailing an expense of about $200,000 will be installed. The first line to be equipped will be that connecting this city and Indianapolis. E. A. Handy is Ch. Engr., Cleveland, O.

MARION, IND.—City Council granted a franchise to Kokomo, Marion & Western Traction Co. to enter the city over Fifth St.

PERU, IND.—The Central Indiana Traction Co., which is composed of Peru men entirely, proposes to build an interurban line from here to South Bend. James O. Cole, City, is Pres. The company has incorporated, and has a capital stock of $25,000. It is expected to begin grading next spring.

SWEETWATER, ILL.—The Springfield, Sweetwater & Peoria Electric Ry. Co., has been incorporated to construct an electric railway from Springfield to Peoria. Incorporators: Geo. W. Hatch, Greenview, Ill.; Thomas H. Alkire, John W. Terhune, James E. Culver and Augustus K. Jones, of Sweetwater.

WAUKEGAN, ILL.—The Watseka & Kankakee Traction Ry. Co. with principal office in this city, has been incorporated, with a capital of $25,000, to construct an electric railway from Watseka to Kankakee. Incorporators: David Magill, Geo. W. Hoyt, Walter H. Hogan, O. F. Morgan and Robt. L. Harrell, of Watseka, Ill.

PEKIN, ILL.—It is reported that the Peoria & Pekin Terminal Ry. Co. is planning to make extensive improvements the ensuing year. A. Legron is Ch. Engr., Peoria.

FONDA, IA.—The matter of building an electric road from this place to Rolfe is again being agitated by local capitalists.

LITTLE ROCK, ARK.—Press reports state that there is a plan to build an electric road from Little Rock to Hot Springs, Ark. L. Garrett, Springfield, Mo., is interested and states that a part of the capital stock is already pledged.

SAN MARCOS, TEX.—The San Marcos Valley Interurban Co. has been orgahized, and a charter will be applied for shortly, to build an electric railroad from San Marcos to Luling, a distance of about 25 miles. Surveys are now in progress. A. L. Davis is Pres., with offices at San Marcos.

PORTLAND, ORE.—Contract for new electric railway to Hillsboro for the Oregon Traction Co. has been let to ERICKSON & PETERSON, of San Francisco, Cal.

SAN FRANCISCO, CAL.—THE WARREN IMPROVEMENT CO., City, has recently obtained the contract from Santa Clara Interurban Street Ry. Co., for the entire con-

struction of the roadbed, including ditching, track laying, etc., from the town of Palo Alto to Mayfield, Cal., a distance of 11½ miles. The road is to be standard gage, laid with 56-lb. rails. This is the preliminary contract on the future electric line to be built from San Mateo to San Jose.

LOS ANGELES, CAL.—Surveyors are at work on right of way of Pacific Electric Ry. Co., between Huntington Beach and Newport Beach. The completion of this line will next be taken up.

BRANTFORD, ONT.—The Canadian-Middlesex Ry. Co. is applying to the Dominion Government for a charter to build an electric railroad connecting St. Catharines, Brantford, Woodstock and London.

## LIGHT, HEAT AND POWER PLANTS.

*The names of parties awarded contracts are printed in capital letters.*

BANGOR, ME.—The Maine & New Brunswick Electric Power Co. will begin the development of its property at Aroostook Falls in the spring. Before the end of the year it is planned to have in operation a plant to supply electric light and power to a number of towns in Maine and New Brunswick. Arthur R. Gould, of Presque Isle, Me., is interested. About 100 acres of land have been purchased adjacent to the falls, and preparations are now being made for the erection of buildings. Five pair of water-wheels, of 400-HP. each, will be installed.

DALTON, MASS.—Zenas and W. M. Crane, of Dalton, will erect a water-power plant here to supply power to this place, and possibly to Hinsdale and Pittsfield. STANLEY ELECTRIC MFG. CO., of Pittsfield, is stated to have contract for electric apparatus, and the PELTON WATER-WHEEL CO., 143 Liberty St., New York, the contract for general material. Barnes & Jenks, Springfield, are Engrs.

NORWALK, CONN.—DANIEL L. TOOMEY has contract for building a lighthouse on Peck's Ledge, in this harbor, at $20,800. CHAMPION IRON CO., of Kenton, O., has contract for metal work, at $13,250. Work will begin in spring.

NEW YORK, N. Y.—Mayor George B. McClellan has announced that bids will be asked soon for the construction and equipment of a municipal electric lighting plant, developing a current sufficient to light the Williamsburg Bridge, seven temporary school-houses, to be erected in the vicinity, and a permanent school building nearby. The plant will be equipped with four cells to burn refuse collected by the Street Cleaning Department, and is expected to develop 400 HP. Plant is to be in operation by June 1. It will cost about $75,000. O. F. Nichols is Engr., Bridge Dept.

PERTH AMBOY, N. J.—The Citizens' Electric Light & Power Co. will be incorporated here. Henry McCullough is Chn. and J. P. Holm, Secy., of Co.

METUCHEN, N. J.—The Metuchen Gas & Electric Light Co. has organized here with $50,000 capital. The President is Patrick Convery; Secy., Robert Carson; Treas., John W. Whelan, of Elizabeth; Directors, A. F. Rittenmeyer, Patrick Convery, Robert Carson and L. D. Johnson. The new company will begin at once the work of laying gas mains through Raritan Township. Company will erect a plant here.

TRENTON, N. J.—Bids are asked until 8 p. m., Feb. 7, for lighting the streets and public places with gas Welsbach and naphtha Welsbach lights for two or three-year periods. Harry B. Salter, Cy. Clk.

CARBONDALE, PA.—The Hendrick Light & Power Co. is stated to have petitioned city for franchise to erect an electric light plant.

HOWARD, PA.—Bids are asked by the Borough Council until Feb. 6 for the construction of a municipal electric light system. Information as to the character and capacity of the plant will be furnished upon application. W. E. Confer, Secy.

WASHINGTON, D. C.—Bids are asked by the Bureau of Supplies and Accounts, Navy Department, until 10 a. m., Feb. 7, for furnishing electrical supplies, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

Bids are asked also by the Bureau of Supplies and Accounts, Navy Department, until 10 a. m., Feb. 14, for furnishing electrical wire, armature, rosettes, etc. H. T. B. Harris, Washington, D. C., Paym.-Gen., U. S. N.

General Electric Co., of Schenectady, N. Y., was lowest bidder, at $11,979, for supplying 29-panel switchboard at Navy Yard.

GRAFTON, W. VA.—The Grafton Railway & Light Co. has been chartered to construct and operate an electric railway and electric light and power plant in Grafton. Capital stock, $400,000. Incorporators: W. E. Harton, George W. Powell, Thomas F. Job, T. B. Bradshaw and W. E. Hildebrand, of Pittsburg, Pa. It is reported that R. W. Kennedy will petition for franchise to lay natural gas mains in city.

CAMERON, W. VA.—Cameron Heat & Light Co. has been organized, with $25,000 capital, by W. Dunlevy, C. G. Fish, S. B. Hineman, G. E. Hoffman and W. H. Nowell, to develop gas and oil wells.

BERKELEY SPRINGS, W. VA.—It is said that the West Virginia Sand Co. has purchased from Eugene Van Rensselaer the Berkeley Springs water-works and electric light plant. It will be improved.

ASHEVILLE, N. C.—B. M. Lee, Cy. Engr., informs us that city contemplates building an electric lighting plant.

COLUMBIA, S. C.—The Carolina Water, Light & Power Co. is reported incorporated with a capital of $250,000, to construct, maintain, own and operate water, light, heat and power plants. J. W. Johnson and W. J. Montgomery are the incorporators.

CHIPLEY, FLA.—Graceville Electric Light & Water Co., of Graceville, Fla., will erect an electric light plant here. A franchise has been secured.

LAUREL, MISS.—Fire destroyed the electric light and power plant, owned by the Laurel Improvement Co. Loss, $25,000.

UNIONTOWN, ALA.—A new and larger water-works and electric light plant will be erected by city, changing the electric system from direct to alternating current, it is reported. Professor Dunston, professor of civil and mechanical engineering at the State Polytechnic Institute, Auburn, Ala., has made preliminary surveys. As soon as report is submitted the necessary machinery, etc., will be purchased. Thomas Hudson is City Clerk.

HOUSTON, MISS.—Town has voted on the issuance of $13,500 of bonds for the construction of an electric light plant and water-works system. J. M. F. Griffin is Town Clk.

MARKSVILLE, LA.—J. A. Tassin, Mayor, writes us that bids will be received about March 1 for construction of electric light plant. Estimated cost, $15,000. Ira W. Sylvester, C. E., Alexandria, is Engr. in charge. Town will purchase private light company's plant and will install water plant in connection.

JOHNSON CITY, TENN.—See under Water-Works.

BRISTOL, TENN.—It is reported that J. E. Durham, representing a Philadelphia syndicate, together with E. H. Mather, an electrical engineer of Portland, Me., are investigating the water-power of the Holston River, on which it is planned to build a power plant for supplying the city with light and water. Sam L. King, Pres. of the Goodson Water Co., Bristol, is said to be interested, also.

HAMILTON, O.—The Hamilton Gas, Light & Coke Co. is stated to have changed its name to the Hamilton Gas & Electric Co. and to have increased its capital to $1,000,000. The company will at once spend about $250,000 in improvements and extensions. A new electric plant is to be installed, also.

COLUMBUS, O.—The Columbus, Delaware & Marion Electric Ry. Co. will build a $300,000 power plant near Delaware, O. THE GENERAL ELECTRIC CO. has contract for three 1,500-HP. generating units.

PLAIN CITY, O.—Bonds for $12,000 will be sold to raise funds for repairing electric light and water plant.

SPRINGFIELD, O.—The People's Heat, Light & Power Co., with $1,500,000 capital, is reported organized by local men.

JACKSON, MICH.—The Kalamazoo Valley Electric Co. will erect a $100,000 power house at Mechanic and Trail Sts. Plans have been prepared. W. A. Foote, Jackson, is interested.

GRAND RAPIDS, MICH.—Sol. P. Kineon, of Cincinnati, has applied for an amended franchise giving him authority to lay gas mains in city streets.

CADILLAC, MICH.—A syndicate of Grand Rapids business men, composed of Claude Hamilton, Henry Idema, E. A. Stowe, Guy W. Rouse and Child, Hulswit & Co., have purchased the gas plant at Cadillac. The old company will be reorganized and the new company will be known as the Cadillac Gas Light Co. Improvements are under consideration.

DOWAGIAC, MICH.—A new city lighting plant is reported to be contemplated.

ROCKFORD, ILL.—The Rockford Gas, Light & Coke Co. will make many additions to its mains. It is planned to spend $100,000 this summer.

AURORA, ILL.—The Western Electric Co. has been formally organized with a capital stock of $6,000,000. Many large plants are consolidated under the head of the new concern.

EDWARDSVILLE, ILL.—W. B. McKinley, of Champaign, has applied to city council for franchise to operate a lighting and power plant here. Application is for electric lighting and power, a gas plant and a public hot water and steam heating plant.

RHINELANDER, WIS.—Contract has been let by the Rhinelander Power Co. for the erection of a dam at Hat Rapids, near this city, to P. B. FARAGHER, of Cleveland, O. The dam will be 20 ft. high and 264 ft. long, which will develop 1,600 HP.

LA CROSSE, WIS.—The Wisconsin Light & Power Co. has been organized. The company has been granted a franchise to furnish electricity to the city.

Application has been made by Walter B. McDonald for a franchise allowing the Chicago Electric Light Co. to furnish light for the city of Onalaska. An application will also be made to the common council of La Crosse for a franchise to furnish current in this city.

COFFEYVILLE, KAN.—Bids are asked until 6 p. m., Feb. 3, for furnishing all material for complete electric lighting equipment, as follows: Two 200 or 225-KW., or intermediate sizes, alternating current generators with their exciters; two simple Corliss engines of sufficient capacity for driving the above mentioned alternators; four tubular boilers of sufficient capacity for furnishing steam to above engines when operating under full load; separate stacks for boilers; all necessary piping, separators, traps, valves, pipe covering, etc. W. K. Palmer, Consult. Engr., 718 Dwight Bldg., Kansas City, Mo.; Rosa Bell, Cy. Clk. Noted Dec. 22 and Jan. 19.

WATERLOO, IA.—O. F. Peterson and C. H. Baker, representing the Peterson Heat, Light, Power & Boiler Co., of Des Moines, have applied to city council for franchise to erect two plants. Estimated cost, $90,000.

DES MOINES, IA.—The Des Moines City Ry. Co. has under consideration plans for a power plant at East 18th and Walnut Sts.

DULUTH, MINN.—Contract for building the first dam, canal, and power station of the Great Northern Power Co. has been let to the NATIONAL RAILWAY CONSTRUCTION CO., of New York, and work has been commenced. This contract, with the requisite machinery for its utilization, represents about $3,000,000. The power company has elected C. A. Duncan, of Duluth, Pres.; C. D. Barney, of New York, Vice-Pres.; Mr. Tucker of Tucker, Anthony & Co., of Boston, Treas., and Oscar Mitchell, of Duluth, Secy. The company will utilize the water power of the St. Louis River rapids to develop electric power and transmit it to Duluth and Superior. It is expected that fully 100,000 HP. can be developed, possibly much more. Noted on Jan. 12. National Railway Construction Co. has let a sub-contract to THOMAS & TRUAR for $20,000 for spur track from Fond du Lac to site of power plant.

WICHITA, KAN.—Plans have been filed for the new plant of the Citizens' Light, Heat & Power Co., which will be installed to furnish electric lights and steam heat in this city. H. G. Landis is interested. W. H. Schoot is Constructing Engr.

JEFFERSON CITY, MO.—Jefferson City Light, Heat & Power Co. has increased capital from $100,000 to $200,000. This company was previously reported as having been purchased by a Chicago syndicate represented by W. M. Horner. Company has 20-year franchise to operate a plant.

ABERDEEN, WASH.—J. D. Crary, Mgr. of the Gray's Harbor Electric Light & Power Co., is said to contemplate purchase of about $75,000 worth of new machinery, most of which will be used in improving the electric light plant in Aberdeen.

SPOKANE, WASH.—Jay P. Graves, Pres. of the Spokane Traction Co. and of the proposed Spokane & Inland Electric Railway through the Palouse country, and F. A. Blackwell, Pres. of the Coeur d'Alene Electric Railway, have bought water power and riparian rights at Nine Mile Bridge, on the Spokane River, below Spokane. They will spend about $700,000 at once, putting in a plant to develop 12,000 HP. The river is 350 ft. wide there, and has banks 90 ft. high. A dam is to be put in 50 ft. high. It is to be 30 ft. thick at the base. The three electric companies will form a company to own the plant.

ROSEDALE, CAL.—The Rosedale Water Co. will install a $2,500 electric power plant. John Orr, Secy.

VISALIA, CAL.—An ordinance has been passed granting a 50-year franchise to William Kettner to lay gas pipes through certain public highways in Tulare County. Eugene L. Scott is Clerk.

CALISTOGA, CAL.—An electric light plant is to be installed here by H. H. Brown and G. S. Cutler.

PORT FALLS, IDAHO.—NELSON BENNETT & CO. and C. S. BIHLER, contractors, of Tacoma, Wash., were awarded contracts, at $135,000, by the Washington Water Power Co. to build the dams and excavate for the power plant at Fort Falls, Idaho, on the Spokane River. The work is to be undertaken at once and to be completed by Aug. 1. The contract calls for two concrete dams, excavation for tailrace and forebay, power house; also for building concrete walls of plant. Company will install machinery and develop 18,000 HP.

## BRIDGES.

*The names of parties awarded contracts are printed in capital letters.*

BOSTON, MASS.—See under Streets and Roads.

HARTFORD, CONN.—F. L. Ford, Cy. Engr., informs us that plans have not yet been completed for bridges on Albany Ave.

NORWALK, CONN.—The following are the lowest bidders for constructing a new stone arch bridge here; bids opened Jan. 25: Dudley E. Hoyt, South Norwalk, $7,500; John Fanzilli, City, $11,620; Standish Stone Co., Bridgeport, $11,737. Selectmen adjourned without awarding contract. Chas. N. Wood, Town Engr.

ELMIRA, N. Y.—It is reported that a new bridge will be erected here at Lake St. Frederick Leach is Cy. Engr.

NEW YORK, N. Y.—Bids are asked by Geo. E. Best, Bridge Comr., until Feb. 9 for constructing lattice railing on footwalks of Williamsburgh bridge.

BINGHAMTON, N. Y.—It is stated that four bridges here are in need of immediate repairs. D. C. Herrick is Cy. Clk.

JERSEY CITY, N. J.—Bids are asked by Board of Boulevard Commissioners of Hudson County until Feb. 9, 2 p. m., for repairing and painting Boulevard bridge over Central Railroad at West Eighth St., Bayonne. Walter O'Mara, Clk.

BERNARDSVILLE, N. J.—The Delaware, Lackawanna & Western R. R. Co., will, it is reported, erect a new bridge here over New St. A. E. Deal is Bridge Engr., Hoboken.

GREENSBURG, PA.—It is stated that the Jeannette, West Newton & Monongahela Street Ry. Co., will erect a steel bridge 600 ft. long over Big Sewickley creek.

GLEN IRON, PA.—The contract for the erection of steel bridge across Penn's creek, near here, was awarded to NELSON & BUCHANAN CO., Chambersburg, for $12,900.

MACON, GA.—Henry M. Steele, Ch. Engr., Central of Georgia Ry. Co., informs us that the contract for furnishing metal work for superstructure of bridge at Walnut St. was awarded to MILLIKEN BROS., 11 Broadway, New York. Foundations will be provided and superstructure erected by Railroad Co.

LOUISVILLE, KY.—It is stated that the Louisville & Nashville R. R. Co. has let contract for erecting 32 new steel bridges on the Kentucky Central division of that road. R. Montfort is Ch. Engr., City.

CINCINNATI, O.—The Cincinnati, Georgetown & Portsmouth R. R. Co will expend between $15,000 and $20,000 for bridges this year. A. W. Comstock is Pres., City.

CLEVELAND, O.—Local press reports state that $100,000 in bonds will be issued for bridges.

CLEVELAND, O.—It is reported that Wm. J. Carter, Cy. Engr., is preparing plans for a high level bridge 115 ft. high over Cuyahoga River, to be built either at Huron St. or Lake St. Est. cost, $2,000,000.

YOUNGSTOWN, O.—This city is contemplating the erection of an overhead bridge from Wood St. to Federal. F. M. Lillie is Cy. Engr.

PIQUA, O.—It is stated that the Springfield, Troy & Piqua traction line will erect a bridge across the Miami River. E. M. de Bruin is Ch. Engr.

PORTSMOUTH, O.—It is rumored that the proposed viaduct to be built over railway tracks on Tenth St. will be built this summer. L. D. York can inform.

NILES, O.—Contract for constructing double track bridge over Mahoning River, near here, has been awarded to CHAS. FINNS & CO., of Pittsburg, Pa., by the Pennsylvania R. R. Co., for $25,000.

CELINA, O.—Bids are asked by Mercer County Commissioners until Feb. 21 for construction of superstructure for a steel bridge over Wabash River, on Krenning road. T. A. Weis, County Audr.

SAGINAW, MICH.—Bids are asked by County Road Commissioner until Feb. 15, for an iron bridge to be built across Pine creek in Chapin. J. W. Kerns, Rd. Comr. (Advertised, Engineering News).

DIXON, ILL.—Contract for erection of a bridge across Green River between Whiteside and Lee Counties has been let to CLINTON (Ia.) BRIDGE & IRON CO. for $3,000.

DES MOINES, IA.—Plans have been submitted to John W. Budd, Cy. Engr., for a Melan arch over Des Moines River.

STEVENS POINT, WIS.—Bids are asked by F. A. Krembs, Comptroller, until Feb. 7 for construction of an iron or steel bridge.

MINNEAPOLIS, MINN.—The contract has been let to JOHN WUNDER for the erection of a reinforced street railway bridge at Queen Ave., S., and Calhoun Boulevard.

MINNEAPOLIS, MINN.—Bids are asked by County Commissioners until Feb. 6 for rip-rapping bridge No. 1 over Mississippi River, at Champlin. Hugh R. Scott, County Audr.

MINNEAPOLIS, MINN.—The Soo line has let contract for abutments for Mississippi bridge in North Minneapolis to replace one recently burned to NEWMAN & HOY, of St. Paul. The MINNEAPOLIS STEEL & MACHINERY CO. has the contract for steel work. Cost, $60,000. The bridge will be 900 ft. long with 150 ft. trestle approaches at either end.

WICHITA, KAN.—County Commissioners awarded contracts to CANTON BRIDGE CO. for constructing 40 ft. steel bridge, in Park Township, and 30 ft. steel bridge in Garden Plain Township. The contract for 18th St. bridge was awarded to WICHITA CONSTRUCTION CO., for $1,925.

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HOLTON, KAN.—It is stated that bids will be received by County Commissioners until Feb. 4 for constructing three small bridges. F. C. McConnell, County Clk.

KEARNEY, NEB.—Bids are asked by A. V. Offil, County Clk., until Feb. 21 for the erection of 800 ft. bridge over south channel of Platte River.

Bills will be received at the same time and place for constructing all county bridges required by Buffalo County during the year 1905.

NORTH PLATTE, NEB.—It is stated that bids will be received by County Commissioners until Feb. 6 for constructing a single track wagon bridge 3,200 ft. long, 10 ft. wide over North Platte River. Fred. R. Ginn, County Clk.

JOPLIN, MO.—County Surveyor Kohlman, of Carthage, is preparing plans and estimates for a bridge across Joplin creek.

LAWTON, OKLA.—The Department of Interior has let contract to VIRGINIA BRIDGE & IRON CO., of Roanoke, Va., for about 15 steel bridges to be erected in Comanche County, ranging in price from $600 to $2,000.

Plans are being prepared by U. S. Agricultural Survey for building 20 additional steel bridges in this county at a cost of about $20,000.

TRINIDAD, COLO.—The contract for Commercial St. bridge here was let to MARSH BRIDGE CO., of Des Moines, Ia., for $28,800. The bridge is to be of concrete, having two spans of 70 ft. each, 64 ft. wide. Contract for Chestnut St. bridge was let to PATTERSON BRIDGE CO., of Denver, for $9,523. This bridge is to be a steel riveted truss 135 ft. long and 35 ft. wide.

TRINIDAD, COLO.—City Council has let a contract to a bridge company in Des Moines, Ia., to erect Commercial St. bridge over Purgatoire River, for $28,800. It is to be a concrete arch bridge, with a roadway 44 ft. wide and sidewalks 10 ft. wide. The contract for Chestnut St. bridge has been let to the PATTERSON BRIDGE CO., of Denver, for $9,533. It will be a steel trestle bridge 135 ft. long.

NORTH YAKIMA, WASH.—Bids are asked by County Commissioners until Feb. 6, 10:30 a. m., for constructing a bridge across Maches River at Nelson crossing. W. B. Newcomb, County Audr.

SALEM, ORE.—Ordinance has been introduced in Council providing for the construction of a Howe Truss, single span bridge across South Mill creek on High St. Referred to committee.

TORONTO, ONT.—Plans have been approved by Railway Commission for building nine steel bridges on line of Toronto & James Bay Railway.

ST. JOHN, N. B.—Many improvements are being made and planned for the New Brunswick Southern Railway, among them being the construction of four bridges. H. H. McLean is Pres. and Mgr., City.

MITCHELL, ONT.—Contract for two steel bridges to be built in Grey Township has been awarded to A. HILL & CO.

DOVER, ONT.—H. N. Bechard, Comr., Dover, South, P. O., is asking bids until Feb. 23 for construction of two steel and two wooden bridges over Rivard Drain, the dredging of which is mentioned under Miscellaneous Contracts.

SEAFORTH, ONT.—Tuckersmith Township Council has decided to build a steel bridge of 90-ft. span, to replace Campbell bridge.

MARSHVILLE, ONT.—The Reeve of Wainfleet Council has been instructed to procure plans for an iron bridge with concrete abutments, to be built over Big Forks creek on Chippewa Creek Road.

WINNIPEG, MAN.—Plans for rebuilding and extending Main St. iron bridge in Minnedosa may be seen at office of Provincial Government Engineer in this city.

## BUILDINGS.

*The names of parties awarded contracts are printed in capital letters.*

SPRINGFIELD, MASS.—Bids are asked until noon, Feb. 10, for construction of technical high school, exclusive of heating, ventilating, plumbing and electric work. Wilbur F. Gordy is Supt. Schools.

ROCKPORT, MASS.—Bids are asked by Geo. W. Tufts, Secy. Building Com., until 5 p. m., Feb. 4, for alteration of the Annisquam mill into a school house and for heating the same. McLean & Wright, 110 Tremont St., Boston, are Archs. Sumner D. York, Chn.

BOSTON, MASS.—Bids received by the Metropolitan Park Commission for the construction of bath houses at Lynn Beach are reported to have been rejected. New bids probably will be received. Appropriation, $60,000.

SPRINGFIELD, MASS.—Bill has been presented in legislature providing for expenditure of $200,000 for erection of a fireproof Hall of Records building. This amount includes cost of land for site. County Commissioners have had no plans prepared yet.

NEW HAVEN, CONN.—E. W. Maynard, 226 Tremont St., Boston, Arch., is said to be receiving bids for the new theater to be erected in the rear of the Poli building, 23 Church St., for S. Z. Poli,, New Haven. Previously mentioned.

Plans are being prepared for school house, to be erected at Orchard and Scranton Sts. Estimated cost, $85,000.

ALBANY, N. Y.—Bids are asked until Feb. 20 for building a smallpox hospital in this city. The work will be subdivided into the following items: (1) Mason work, (2) carpenter work, (3) painting work, (4) plumbing work, (5) heating work. Separate bids will be received for any item or a lump bid for all items. Isadore Wachsman, Clk. Bd. of Contract and Supply.

ARVERNE, N. Y.—Plans are reported to have been prepared for the erection of a casino and bathing pavilion for the Hotel Shanley Co. at West Arverne. Estimated cost, $85,000.

BINGHAMTON, N. Y.—Competitive plans are requested for proposed Y. M. C. A. building here; $100,000 is available. Prizes are offered. All plans must be submitted by April 1. Address E. B. Searles, Secy., for all details.

ROCHESTER, N. Y.—Dr. J. J. A. Burke, 65 East Ave., has acquired a site at East Ave. and Chestnut St. and will build thereon a fireproof hotel.

An addition will be built to the Powers Hotel. Wesley Crouch is Prop.

NEW YORK, N. Y.—Henry Bacon, Arch., 160 Fifth Ave., has let general contract to the TIDEWATER BUILDING CO., 25 West 26th St., for a residence for the Thompson estate, 17 West 36th St. Cost, about $200,000.

The First Presbyterian Church Trustees will erect a 12-story office building on Fifth Ave., between 11th and 12th Sts. Cost, $500,000. Rev. Dr. Howard Duffield is pastor of church. B. M. Whitlock is Chn. of the Building Com.

NEW YORK, N. Y.—It is announced that Dr. E. R. L. Gould, 304 West 78th St., will be in charge of the construction of the proposed "model tenements" to be erected for Henry Phipps. Noted last week. THE CITY & SUBURBAN HOMES CO., 281 Fourth Ave., have contract. $1,000,000 has been donated. It is reported that James E. Ware & Son, 1170 Broadway, are to prepare the plans.

Babb, Cook & Willard, 3 West 29th St., Archs., have plans for a public library at 444 Amsterdam Ave., for the New York Public Library, Astor, Tilden and Lenox foundations, 40 Lafayette Pl. Cost, $75,000.

MARC EIDLITZ & SON, 489 Fifth Ave., are reported to have general contract for proposed new Altman building, at 35th and 34th Sts. and Fifth Ave. Trowbridge & Livingston, 424 Fifth Ave., are Archs.

The third set of bids for erecting new Police Headquarters building, excepting heating and ventilating system, boilers and steam piping, on the block bounded by Grand, Centre and Broome Sts. and Centre Market Pl., were received on Jan. 26 as follows: GILLESPIE BROS., 1135 Broadway, $662,250 (who was awarded contract); Charles H. Peckworth, 415 Hudson St., $668,775; Buckley Realty & Construction Co., $669,999; P. Gallagher & Co., $663,900; Ryan & McFerran, 106 East 23d St., $724,975; R. E. Henningham, $690,000; T. B. Leahy, 9 East 42d St., $744,375; Thomas Cockerill & Son, 147 Columbus Ave., $724,500.

Yorkville National Bank, Third Ave. and 85th St., will erect a new building, for which bids will be received. Robert Maynicke, 294 Fifth Ave., is Arch. Estimated cost, $125,000.

NEW YORK, N. Y.—Bids are asked until Feb. 15, 10 a. m., for erecting a cold storage building at Kingston Ave. Hospital, Boro. Brooklyn. Thomas Darlington, M. D., Pres. Dept. Health.

Bids are asked by Board of Education until 11 a. m., Feb. 14, for construction of school 66 on Watkins and Osborn Sts., Brooklyn. At same date bids will be received for repairing schools in other boroughs, installing electric equipment, etc. C. B. J. Snyder, Supt. School Bdgs.

ORANGE, N. J.—Bids will be received, according to reports, until Feb. 14 for building an $85,000 school house for Board of Education.

BROOKLYN, N. Y.—Bids were received on Jan. 23 for general construction of public school No. 151, on Knickerbocker Ave., between Halsey and Weirfield Sts., as follows: Juan B. Arci, Brooklyn, $201,750; R. E. Henningham, 4 Court Sq., $205,423; Peter Cleary, 235 Bainbridge St., $221,200; Clarke & Stowe, 229 Kent St., $214,300; Thos. Cockerill, 147 Columbus Ave., $220,752; Gardone & Garlardi, 114 East 23d St., $225,000; Geo. Hildebrand, 38 Park Row, $206,900; Wm. Werner, 894 Forest Ave., $219,753; Buckley Realty & Const. Co., 42d St. and Broadway, $216,593; W. P. McGarry, 236 Huron St., $200,879; C. H. Peckworth, 415 Hudson St., $211,420; Tanning & Reilly, 150 Fifth Ave., $217,679; John Auer & Sons, 937 Broadway, $213,340; Louis Wechsler, 4133 Broadway, $217,785; F. J. Kelly & Sons, 138 Dean St., $210,300.

CAMDEN, N. J.—Bids are asked by Camden County Building Committee, Irving Buckle, Chn., until March 15 for jail equipment, including cells, gratings, etc., for new county court house at Camden. Rankin, Kellogg & Crane, 1012 Walnut St., Philadelphia, Pa., are Archs. (Advertised, Engineering News.)

ORANGE, N. J.—The Delaware, Lackawanna & Western Ry. Co. will erect a passenger station here.

MONTCLAIR, N. J.—E. Madison, Secy. Bd. of Education, writes us that contracts will be let in about a month for new Hillside Ave. Grammar School. Estimated cost, $150,000.

WASHINGTON, PA.—Three lowest bidders, Jan. 25, for constructing U. S. Post Office in this city were as follows: Mankin Construction Co., Richmond, Va., $39,964; Fissell & Wagner, New York, $40,376; Thomas Reilly, Philadelphia, Pa., $41,713.

PHILADELPHIA, PA.—The Trustees of the Free Library have commissioned Field & Medary, Archs., to prepare plans for a branch library at 17th and Spring Garden Sts., out of the $1,500,000 fund presented by Andrew Carnegie.

Bids are asked by Board of Education until Feb. 7 for erecting four schools as follows: Race and Crown Sts., estimated cost, $65,000; 22d and Brown Sts., $90,000; 38th and Warren Sts., $55,000; Rhawn and Dittman Sts., $45,000. Each to be three stories high, of stone, brick and steel.

Bids are asked until noon, Feb. 6, by Department of Public Works, Bureau of Water, for repairs to roofs during 1905. Peter E. Costello, Dir.

J. H. Cook, City Hall, is preparing plans for a manual training school to be erected at Broad and Jackson Sts. Estimated cost, $350,000.

PITTSBURG, PA.—Director Arthur A. Hamerschlag, of the Carnegie Technical School, announces that Palmer & Hornbostel, the Archs., who have established offices in the Lewis Bldg., have plans ready for bids for the first group of buildings to be erected. Previously noted.

EAST LIBERTY (PITTSBURG POST OFFICE STATION), PA.—The Pennsylvania Ry. Co. has awarded contract for excavation and foundation work for proposed East Liberty station to the COLUMBIA CONTRACTING CO., of Pittsburg, at $100,000. The station itself will cost $200,000. It will be one story high, 190 × 97 ft., of brick and steel, with terra-cotta trimmings.

BALTIMORE, MD.—Bids are asked until Feb. 8 for construction of the Eastern Female High School, to be located at Broadway and North Ave. Plans and specifications by Simonson & Pietsch, Archs., Hoen Bldg., 302 East Lexington St. Harry F. Hooper, Cy. Register, City Hall, will receive bids.

The Baltimore & Ohio Railroad Co. has commissioned H. D. Hale and Parker & Thomas, associated architects, Union Trust Bldg., Baltimore, and 1 Somerset St., Boston, Mass., to prepare plans and specifications for its new office building, which will be located at Baltimore and Charles Sts. Building will be 13 stories high, with basement, 168 × 155 ft.; concrete foundation, steel frame construction, fireproof throughout, electric wiring and fixtures, sanitary plumbing, steam heating system, power passenger elevators.

Centre Market Improvement Commission, Felix Agnus, Chn., City Hall, has approved the plans and specifications by Simonson & Pietsch, Archs., Hoen Bldg., 302 East Lexington St., for the municipal fish market to be located on Centre Market Space. The plans provide for building two stories high, 135 × 214 ft., of brick, with stone trimmings, concrete foundation, either steel frame or reinforced concrete construction. It will be fireproof throughout.

The Farmers and Merchants' Bank, Charles and Saratoga Sts., has awarded contract to WELLS BROS. CO., 410 Union Trust Bldg., for the construction of bank building at South and Lombard Sts. Baldwin & Pennington, 311 North Charles St., are Archs. Cost, $150,000.

BALTIMORE, MD.—Mrs. W. J. Jarrett, Hotel Albion, has awarded contract to BRADY & WATTERS, builders, 532 St. Paul St., for the construction of store building at 209 East Baltimore St. F. E. & H. R. Davis, Archs., 220 St. Paul St.

CHARLES GILPIN, Philadelphia, has contract for erection of Hotel Caswell, at Baltimore and Hanover Sts., for Sylvanus Stokes.

Architects have been invited to submit competitive designs for proposed Maryland Institute of Art and Design building. Andrew Carnegie has donated $250,000. Noted on Jan. 19. John M. Carter, 218 St. Paul St., Prest. of Bldg. Com., may be addressed. Building probably will be erected on Centre Market Space.

WASHINGTON, D. C.—PETER FERSING, 1 N St. N. W., has been awarded the contract for 2 houses at Fourth St. and Maryland Ave., for J. W. Cost, $100,000.

Bids are asked by Elliott Woods, Supt. Capitol building and grounds, Department of the Interior, until 2 p. m., Feb. 4, for excavations incident to construction of an office building for the United States Senate. Excavation plan and specifications will be furnished to intending bidders upon application.

Bids are asked until Feb. 23 for cast-iron sheet copper window frames and sash for building for War College. John S. Sewell, Capt. Engrs., Washington Barracks.

WASHINGTON, D. C.—Bids are asked until noon, Feb. 10 by Life-Saving Service, Treasury Department, for making repairs, alterations and additions to the lifeboatwick, Barnegat, South Brigantine and Ocean City, life-saving stations. Proposals for the work at other more stations will be considered. Specifications, drawings, forms of proposal, etc., can be obtained upon application to the superintendents of construction of life-saving stations, 17 State St., New York City. Bids will be received at same date also for the construction of a life-boat house for the Lewes, Del., life-saving station.

ROANOKE, VA.—J. C. NESBITT, of Roanoke, was awarded the contract for erection of general office building for the Norfolk and Western Railway Co., in this city, at $112,000.

STAUNTON, VA.—Bids are asked by T. J. Collins & Son, Archs., until noon, Feb. 15, for the erection and completion of school and dormitory building for the Staunton Military Academy. Building to be of brick or cement block, and to contain about 140 dormitory and class rooms, with baths, closets, swimming pool, etc. Drawings and specifications can be obtained by application to architects.

ELIZABETH CITY, N. C.—Bids are asked until March 20 for construction complete of court-house and post-office here. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

CHARLOTTE, N. C.—H. C. MORRISON, of Augusta, Ga., has contract for the erection of proposed 2-story brick depot for the Southern Railway Co. Plans by Frank P. Milburn, of Columbia, S. C. Contract price, $80,000. About $11,000 additional will be expended for steel sheds, steam heating, plumbing, etc.

WILMINGTON, N. C.—Hook & Sawyer, Archs., Charlotte, N. C., have made plans for 2-story Princess Theater, 60 × 150 ft., to be erected at Wilmington, for S. A. Schloss. Cost, $30,000.

ANNISTON, ALA.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until Feb. 25 for low-pressure steam-heating apparatus, complete in place, for U. S. Post Office at Anniston. (Advertised, Engineering News.)

CHATTANOOGA, TENN.—Bids are asked until March 1 for constructing five buildings. Capt. C. Nixon, Q.-M. (Advertised, Engineering News.)

CINCINNATI, O.—Bids are asked by the Board of Trustees, Memorial Association, Hamilton County, at office of Samuel Hannaford & Sons, Archs., until noon, Feb. 15, to erect and complete a new soldiers and sailors' memorial building. Bids will be received upon the whole or any branch of the work as follows: Dilapidation, excavation and concrete foundations, brick work, asphalt roofing, tile and sheet metal work, plastering, cut stone work, fireproofing, reinforced concrete work, iron and steel work, carpenter work, plumbing and gas piping, marble work, painting and glazing, composition floors, Venetian mosaic, cement work, electrical work, heating and ventilating and sidewalk hoist. Elias R. Monfort, Pres.; Aaron McNeill, Secy.

FINDLAY, O.—Bids are asked by James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C., until 3 p. m., March 7, for the construction complete of post-office at Findlay.

CLEVELAND, O.—Chas. W. Hopkinson, Arch., Rose Bldg., has awarded the general contract for the new mining engineering building for Case School of Applied Science to SAMUEL AUSTIN & SON CO., 1237 Broadway. The masonry work has been sublet to C. N. GRIFFIN & CO., 416 Arcade Bldg., and the plumbing has been let to DEWSTOE BRAINARD CO., 169 Prospect St.

E. E. Smith, Arch., Williamson Bldg., has awarded the general contract, including mason work, iron and steel, fireproofing and tile work, for the new 7-story apartment building to be erected at Euclid and Genesee Aves., to J. A. REAUGH & SON, who have sublet the contract for iron and steel work to the NATIONAL IRON AND WIRE CO. The building will cost $100,000.

SIOUX CITY, IA.—J. H. Bolton writes us that he probably will rebuild new business block by day labor. It will be 64 × 90 ft., three stories, fireproof, brick. Cost, $30,000; equipment, $7,000. Wilfred Beach, Sioux City, is Arch. Noted on Jan. 19.

BARABOO, WIS.—Ferry & Clas, Archs., 419 Broadway, Milwaukee, have prepared plans for a court house, for which bids will be asked about April 1. Previously mentioned. Estimated cost, $100,000.

DULUTH, MINN.—Fred W. Kugler, County Comr., writes us that court-house probably will be erected at cost of $300,000 to $500,000. No architect has been appointed yet.

ST. PAUL, MINN.—Clarence H. Johnston, Arch., Manhattan Bldg., has revised plans for the Y. M. C. A. building. Cost, about $150,000.

OAKLAND, CAL.—Bids are being received for Franklin school in East Oakland by Board of Education. Estimated cost, $150,000. J. W. McClymonds is Supt. Schools.

MINNEAPOLIS, MINN.—PIKE & COOK have general contract for new Boutell building to be erected at First Ave. and Fifth St. Sedgwick & Saxton, Archs. Estimated cost, $125,000.

ST. PAUL, MINN.—GEORGE J. GRANT has been awarded contract for brick building at Second and Jackson Sts., to be erected for Farwell, Ozmun, Kirk & Co. Cost, $450,000. L. J. Lockwood is Arch.

LAREDO, TEX.—Bids are asked until March 21 for construction complete (except elevator and wiring) of post-office, court-house and custom-house. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C. (Advertized, Engineering News.)

DALLAS, TEX.—Contract for new auditorium hall was awarded to KNIGHT & KENYON, of Dallas, at $71,000. Four bids were received.

SHE[illegible]AN, TEX.—Bids are asked until March 23 for construction (except heating apparatus and wiring and conduit system) of post-office and court-house here. James Knox[illegible]or, Supervising Arch., Treasury Dept., Washington, D. C.

HE[illegible]A, OKLA.—Bids are asked until Feb. 10, 2 p. m., for [illegible]ing county high school building. Wm. F. Schi[illegible]Arch. and Supt., P. O. Box 379, Kansas City, Mo.

AL[illegible]BRA, CAL.—Bids are asked until Feb. 14 for erect[illegible]high school building. A. C. Smith, Arch., 218 South[illegible]adway, Los Angeles. F. E. Williams, Clk.

SAN[illegible]RANCISCO, CAL.—The general contract for Monadnock block has been let by Herbert E. Law to the HAW[illegible]AN COMMERCIAL CO. The steel work will be done by MILLIKEN BROS., 11 Broadway, New York. Total cost, about $1,000,000.

ICK[illegible]HEIMER BROS., San Francisco, have contract amount[illegible]g to about $14,000 for the gas fitting, sewering and [illegible]bing of seven-story building to be erected in Taylo[illegible]St. for Starr Estate Co. PETTERSON & PERSSON have contract, amounting to $55,000, for the construction work.

SAN FRANCISCO, CAL.—Bernard Faymonville, Vice-Pres. of Fireman's Fund Insurance Co., 401 California St., writes us that no plans have been prepared yet for proposed building. If company builds, the building will be of brick and stone, steel frame.

DOUGLAS, ARIZ.—Bids are asked until Feb. 10 for construction of Y. M. C. A. building. Geo. D. McGill, Secy.

## WATER SUPPLY AND IRRIGATION.

*The names of parties awarded contracts are printed in capital letters.*

PORTLAND, ME.—Bids are asked by Capt. A. W. Yates, Q. M., U. S. A., until Feb. 23 for extension of water mains at Fort Preble, Me.

WILLIAMSTOWN, MASS.—We are informed that surveys have not been completed for proposed improvements of Williamstown Water Co., C. G. Sanford, Supt., but it is hoped to have it done in the spring. Small reservoir is to be constructed and two miles of 8-in. and 12-in. pipe laid.

ONEIDA, N. Y.—It is stated that city officials have been considering securing soft water supply from Vienna, eleven miles distant. Geo. L. Schiefele is Mayor.

SCOTIA, N. Y.—Contract for sinking test well for village water supply has been let to CRANE & GRIDLEY, for $1,250.

WHITEHALL, N. Y.—Town meeting was to be held Jan. 24 for purpose of raising $10,000 for purchase of new pumping plant and maintaining the village water-works.

PERRYOPOLIS, PA.—We are informed that Perryopolis Water Co. has just applied for charter, and that surveys for projected system have not been completed. J. A. Guiler is official in charge. E. T. Norton is also interested.

PITTSBURG, PA.—Bids are asked by City Controller until Mar. 8 for construction of sand filtration system for this city. The work is divided into ten contracts as follows: Contract No. 1.—Filters, basins and appurtenances, 680,000 cu. yds. excavation, 275,000 cu. yds. filter material, 200,000 cu. yds. concrete, 1,100 tons of riveted steel pipe, 1,400 tons of cast iron pipe and specials, 33,000 sq. yds. of macadam roadways, 80 acres of seeding. Contract No. 2.—Filtered water reservoir and appurtenances, 130,000 cu. yds. excavation, 220,000 cu. yds. embankment, 34,000 cu. yds. concrete, 172 tons of cast iron pipe and specials, 3,000 sq. yds. macadam roadways, 12 acres of seeding. Contract No. 3.—River crossing and connections at Brilliant Pumping Station and appurtenances, 4,200 cu. yds. concrete, 600 tons of riveted steel pipe. Contract No. 4.—Centrifugal pumps, engines and appurtenances, four centrifugal pumps, four compound condensing engines, four condensers and air pumps. Contract No. 5.—Boilers, economizers, piping and appurtenances, eight water tube boilers, eight mechanical stokers, two fuel economizers. Contract No. 6.—Sand washer pumps, electric machinery, auxiliary equipment and appurtenances, three wash water pumps, four generator sets, nine miscellaneous small pumps, one condensing apparatus, one switchboard, one electric traveling crane, steam exhaust, feed, oil and drip piping, machine tools and shop equipment. Contract No. 7.—Pumping station and appurtenances, 16,000 cu. yds. excavation, 13,000 cu. yds. concrete, superstructure, 200 × 100 ft., chimney, 200 ft. high, 8 ft. 6 ins. flue. Contract No. 8.—River wall, intakes, connections and appurtenances, 13,000 cu. yds. excavation, 4,000 cu. yds. concrete, 180 tons of riveted steel pipe, 130 tons of cast iron pipe and specials, 2,000 sq. yds. of macadam roadway, 4 acres of seeding. Contract No. 9.—Pumping engines, boilers and appurtenances at Brilliant Pumping Station, two pumping engines, three water tube boilers, three stokers, coal handling machinery, flues and piping in boiler room. Contract No. 10.—Pipe line and appurtenances, Highland Reservoir, No. 2, to South Side, 9,000 cu. yds. excavation, 5,000 cu. yds. concrete, 3,550 tons of riveted steel pipe, 105 tons of cast iron pipe and specials, 20,000 sq. yds. asphalt pavement, 800 sq. yds. stone pavement. William B. Hays, Mayor; Edward M. Bigelow, Dir. Dept. Pub. Wks.; Morris Knowles, Ch. Engr., Bureau of Filtration. Plans and specifications for above work are on file at office of Engineering News, in Monadnock Block, Chicago, Ill. (Advertised, Engineering News.)

WASHINGTON, D. C.—Bids are asked by District Commissioners until Feb. 20 for furnishing cast-iron pipe specials for siphons. (Advertised, Engineering News.)

SALEM, VA.—J. N. Ambler, Cy. Engr., is to prepare plans and specifications for 150,000 gallon steel water tower.

BERKELEY SPRINGS, W. VA.—West Virginia Sand Co. is reported to have purchased private water-works and electric light plant here for $18,000, with intention of improving them and carrying water and light to various parts of the village.

ASHEVILLE, N. C.—We are informed that city will probably construct a 4,000,000 gallon reservoir; no definite decision, however, as to this has been reached. If reservoir is erected it will be placed at old stone quarry on mountain, 200 ft. above the town. B. M. Lee is Cy. Engr.

LINCOLNTON, N. C.—We are informed that following contracts for materials for water-works were let Jan 20: VIRGINIA BRIDGE & IRON CO., tank and tower; LYNCHBURG FOUNDRY CO., piping; HERRON CO., Chattanooga, Tenn., hydrants and valves. A Worthington pump was also purchased. Estimated cost of work is $30,000. 250-HP. boilers are yet to be purchased. Mayor J. Thos. McLean is official in charge.

APOPKA, FLA.—Apopka Water & Light Co., according to reports, wants estimates (f. o. b. Apopka) for equipment for small water-works, including one 50 HP. boiler and stack (wood burner), two miles of 4-in. cast-iron water pipe, with lead and hemp for joints, two miles of 2-in. to 2½-in. water pipe, complete fittings, joints, cocks, hydrants, couplings, etc., and one wood or iron tank 50,000 gallons capacity.

ABBEVILLE, LA.—Richard C. Huston, Fort Smith, Ark., has been selected as Engr., for water-works and sewers for this place, which are to be installed at a probable cost of $45,000.

HUNTINGDON, TENN.—We are informed that bids for standpipe for local water-works will be opened about June 1. W. J. Holman, Huntingdon, Gen. Mgr., Water and Light Plant, is Des. Engr. and official in charge.

CHATTANOOGA, TENN.—Local water company, according to reports, is to supply Hill City with water. Necessary plant, including standpipe will cost about $20,000.

OWENSBORO, KY.—Council, according to reports, is to award contract for constructing municipal water-works (bids opened Jan. 2) to John Trapp, Newport, Ky., for $103,188.

CEDARVILLE, O.—We are informed that Cedarville Water-Works Co. has taken initial steps for installation of water-works at this place. System will include reservoir at village supplied by gravity from fountain three miles distant, and by Holly pumps, pumping direct into mains. Preliminary estimates set capitalization of company at $35,000. Work would require three miles 8-in. supply mains, 6,800 ft. 6-in. and 14,400 ft. 4-in. mains for distribution system and 30 hydrants. Robt. Hood, Cedarville, is Des. Engr.

CANTON, O.—J. M. Bostick, Arch., Massillon, O., is stated to have prepared designs and estimates for erection of $25,000 pumping station for this city.

GLENWOOD, MICH.—We are informed that village will let contract Feb. 7 for construction of municipal water-works to cost about $15,000. Work will require about four miles of pipe, 30 hydrants, 25 valves and pipe laying. W. S. Parker, 28 Cadillac Sq., Detroit, Mich., is Des. Engr.

JACKSONVILLE, ILL.—We have received the following information concerning the water-works system at this place: On Sept. 23, 1904, the City Council of Jacksonville passed ordinance granting a water-works franchise for 30 years to Chas. W. Mackey and Omar N. Gardner, and to turn over their present plant, consisting of 30 miles of mains and 200 hydrants, when the terms of franchise were complied with. Mackey & Gardner have assigned franchise to a company known as the Jacksonville Water Co., and of which Chas. W. Mackey is Pres. The water company have let contract for all new work to the VENANGO CONSTRUCTION CO., of which Omar N. Gardner, Jamestown, N. Y., is Pres. The contract calls for the construction of a forcing main 18½ miles in length, and 20 ins. in diameter; standpipe, pumps, boilers, pumping station and water supply. The source of supply is the valley of the Illinois River by a system of driven wells. The bonds of the water company for the completion of this work, amounting to $350,000, have been underwritten by Franklin, Pa., capitalists, and arrangements have been made for an early completion of this work.

ASHTON, ILL.—We are informed that plans have not yet been matured for new water-works which company proposes to put in at a cost of $8,000 to $12,000. It is probable, however, that plant will be installed early in the summer. Supply is to be from deep well. H. A. Bremmer is official in charge.

LA CROSSE, WIS.—Committee, Mayor Torrance, Chn., is to secure services of hydraulic engineer to make recommendations regarding a filtration system for this city.

ST. PAUL, MINN.—Board Water Commissioners, John Caulfield, Secy., have let following contracts: Contract for 852 tons 8-in., 12-in. and 16-in. cast iron pipe to U. S. CAST IRON PIPE & FOUNDRY CO.; contract for valves, hydrants and special castings was let to SOUTH PARK FOUNDRY & MACHINE CO., St. Paul, Minn.; contract for brass goods and valve and service boxes, CRANE & ORDWAY, St. Paul, Minn. Bids were opened Jan. 20.

DEADWOOD, S. DAK.—We are informed that following bids were received Jan. 25 for improvement and extension of city water-works: James Munn, Deadwood, S. Dak., $119,600; Edward Hanshka, Deadwood, S. Dak., $124,460; P. McDonnell, Duluth, Minn., $123,800; Flinn & Hanlon, Sioux City, Ia., $119,875; American Light & Water Co., Oklahoma, Okla. T., $117,778; McQuatters Plumbing & Machinery Co., Hillsboro, Tex., $117,900; Hanley & Ritchie, Iola, Kan., $116,000. A. D. Wilson is Cy. Engr.

GLENDIVE, MONT.—City votes to issue $50,000 of bonds for water-works and sewer system.

ST. LOUIS, MO.—Ordinance is to come before Municipal Assembly to provide for large pipe line from Chain of Rocks to the city.

CASSVILLE, MO.—This city will receive bids on Mar. 1 for the purchase of $9,000 water-works bonds. Burns & McDonnell, Engrs., 509 Dwight Bldg., Kansas City, Mo., are preparing plans and specifications for the work. E. C. Frost is Mayor.

DALLAS, TEX.—We are informed that following bids were received Jan. 24 for sinking and completion of artesian well. J. B. Winslett, Cy. Secy.: American Well & Prospecting Co., Corsicana Tex., $30,000; J. P. Miller Artesian Well Co., Chicago, Ill., $22,000.

ARAPAHO, OKLA. T.—J. L. Farley, De Soto, Mo., has applied for franchise for water-works for this city.

BLACKWELL, OKLA. T.—We are informed that an extension of city water system will be made at an est. cost of $5,000.

DENVER, COLO.—We are informed that Agricultural Ditch Co., Harry Lee, Secy., has made preliminary survey only for the proposed extension of its ditch, and has let no contracts as yet.

MEEKER, COLO.—Bids are asked by Town Trustees until March 4 for furnishing material and constructing water-works for this town. W. H. Clark, Engr., Meeker; J. A. Blair, Clk. (Advertised, Engineering News.)

TILLAMOOK, ORE.—Bids are asked until Feb. 25 for construction of water-works for this city. C. W. Talmage, Mayor; Thos. Coates, Cy. Recdr.

DUNSMUIR, CAL.—Water-works are projected for this place by company at head of which is Adam Andrews, Mgr. Shasta Springs Co. Contract is reported to have been let to JAMES STANLEY, C. E., San Francisco, Cal.

***Information concerning contracts to be let or supplies to be furnished, and corrections of errors and omissions in published items, are invited. Full details regarding the equipment, tools, etc., required for the proposed improvements are specially desired.***

SAN DIEGO, CAL.—We are informed that following contracts have been let by Board Public Works, F. H. Dixon, Secy. (Bids received Jan. 19): Water improvement and extension, STANLEY CONSTRUCTION CO., San Francisco, Cal.; constructing and laying wood pipe, STANSBURY & POWELL, Los Angeles, Cal., $24,000.

C. L. Alverson, C. E., has submitted report to Special Council Committee on cost of pumping plants and pipe lines necessary to develop a daily flow of 8,000,000 gallons of water from the El Cajon source and delivery of same in University Heights reservoir. Total cost is estimated at $245,270, divided up as follows: New University Heights reservoir, $12,500; 30-in. pipe to storage reservoir, $123,000; new storage dam, $9,580; 33-in. force pipe, $40,000; foundation and pit walls plant, $5,200; buildings plant, $41,720; main suction pipe, $4,920; machinery and connections, $41,720; drive wells, $3,250; fuel pipe to railroad, $3,100.

SANTA ANA, CAL.—We are informed that proposed extensions of municipal water system, to be made at a cost of $100,000, will require a 5,000,000-gallon pump, 1,500 tons cast iron pipe, a 100 HP. boiler and an addition to present station. Work will probably be advertised about Feb. 1. Ransom Reid is Supt. W.-W.

SANTA BARBARA, CAL.—City Trustees have sold $40,000 of water extension bonds.

SALT LAKE CITY, UTAH.—We are informed that project to construct irrigation works on San Rafael River to irrigate lands in Emery county, this state, for which Frank C. Kelsey, C. E., Salt Lake City, is Engr., is in formative stage, surveys not yet having been completed.

SPARKS, NEB.—Water company may be formed here. Supply would be from artesian wells.

INDIAN HEAD, N. W. T.—John Galt Consult. Engr., Toronto, Ont., is to prepare plans and estimates for water-works system for this place.

STRATFORD, ONT.—By-law has been voted to appropriate $50,000 for water-works extensions.

## SEWERAGE.

*The names of parties awarded contracts are printed in capital letters.*

SALEM, MASS.—The Sewerage Commission will call for plans and specifications and ask for an appropriation for completing construction of sewage system, it is reported.

WORCESTER, MASS.—Contract for furnishing cement to Water, Sewer and Street Department, has been awarded to SMITH, GREEN CO., of Worcester, at $1.62 for cement in barrels; 42 cts. for cement in cloth sacks with 10 cts. rebate for return of sacks.

BUFFALO, N. Y.—G. W. Moore was lowest bidder for building a sewer in Sheffield Ave., at $2,197; William Franklin, for sewer in Doyle Ave., at $2,387.

NEW YORK, N. Y.—Bids were received Jan. 24 by President Bronx Borough for constructing sewers in (1) West 233d St., and (2) in Boston Road, the lowest bidders in each case being as follows: (1) Briggs & McLaughlin, 19 East 130th St., New York, $30,189; Burns & Rodgers, 1909 Amsterdam Ave., New York, $30,851; (2) Geo. I. Bailey, 168th St. and Fulton Ave., New York, $30,237; Bellen & Merritt Co., Tuckahoe, N. Y., $31,196.

NEW YORK, N. Y.—Briggs & McLaughlin were lowest bidders, at $30,189, on contract for sewer in 233d St., between Broadway and Bailey Ave. Burns & Rodgers' bid was $30,851.

For sewer in Park View Place, Thomas Murray was lowest bidder at $9,890; in Independence St., Burns & Rodgers, lowest bidders, at $11,162; in East 238th St., S. M. De Pasquale, lowest bidder, at $3,266.

NEW ROCHELLE, N. Y.—Bids are asked by Sewer Commissioners until Feb. 23 for construction of about 2,000 ft. of 30-in. submerged cast-iron pipe sewer under waters of an arm of Echo Bay. Work also includes construction of sand catcher, rising well and other appurtenances. James Knapp Wilkes, Ch. Engr.; George W. Sutton, Chn. Comrs. (Advertised, Engineering News.)

MAMARONECK, N. Y.—Bids are asked by the Board of Trustees, Village Rooms, until Feb. 17th for the construction of about 3½ miles of sewers. J. M. Farley, Engr., 5 Court St., White Plains, N. Y. Daniel Warren, Pres.; Chas. W. Buckter, Clk. (Advertised, Engineering News.)

WILKESBARRE, PA.—Bids are asked until Feb. 24 for furnishing and delivering pipe, and constructing sewers in 47 streets. W. V. Ingham, Cy. Engr. Fred. H. Gates, Cy. Clk. (Advertised, Engineering News.)

MEADVILLE, PA.—W. A. Doane, Cy. Engr., writes us that bids will be received about Feb. 15 for storm water drains, about 3,300 ft. of 10-24-in. sewers. Average cut, five feet. Cost, $3,000.

PHILADELPHIA, PA.—Bids have been received for reconstruction of the Cohocksink sewer in Girard Ave., from Mascher to Front St. and south on Front St. to Willow, at a cost of $75,000; Mages St. sewer, extension, to cost $40,000, and extension of Pratt St. sewer, at $75,000.

NORFOLK, VA.—Plans will be prepared by W. H. Taylor, Seventh Ward Engr., for a system of sewers that would empty into Tanner's Creek. Estimated cost, $150,000 to $200,000.

ATLANTA, GA.—James G. Woodward, Mayor, informs us that nothing has been done as yet in regard to septic tank, mentioned on Jan. 19. It probably will be some time before any action of a definite nature is decided upon.

MILLEDGEVILLE, GA.—An election is reported to have been held to vote on issuance of $20,000 of bonds for sewers. C. L. Moore is Cy. Clk.

HAMMOND, LA.—Town will vote on Feb. 7 on the issuance of $30,000 of bonds for the construction of water-works and sewer system. Election previously mentioned to be held January 10 was withdrawn.

ABERDEEN, MISS.—City will vote Feb. 27 on the proposed $70,000 bond issue for the construction of water-works and sewer system. J. M. Acker is Mayor.

HOLLY SPRINGS, MISS.—Walter G. Kirkpatrick, Jackson, Miss., writes us that at an election on Jan. 23 it was voted to construct a system of sewers, including disposal works, at cost of $19,000. Kirkpatrick & Johnson, Jackson, Miss., are Engrs.

LEXINGTON, KY.—P. P. O'Neill, City Engr., states that $25,000 will be expended this year in connection with the main trunk sewers. Contracts will probably be let the latter part of March.

BOWLING GREEN, O.—The request of Riggs and Sherman, of Toledo, to prepare plans for a sewage disposal plant is under consideration. Estimated cost of the plant is $10,000.

CLEVELAND, O.—Bids are asked until Feb. 14 by Board Public Service for constructing various sewers. W. J. Springborn, Pres.; A. R. Callow, Secy. Bd.

MARION, O.—Bids are asked until noon, Feb. 15, for sewer construction. William Fies, Clk.

DAYTON, O.—WM. REHLING was awarded contract for sewers in Burkhardt and Curtis Aves., at $2,697; also for sewers in Fifth, Richard, La Belle and McReynolds Sts., at $8,549.

CINCINNATI, O.—J. E. Breen, acting Ch. Engr., Board Public Service, writes us that plan has recently been adopted by city council for a sewer in Colerain Ave. No further steps have been taken toward its construction. Estimated cost, $16,047.

SULLIVAN, IND.—Bids are asked until Feb. 16 for construction of several sewers. William E. Aydelotte, Pres. Bd. Trustees. David Crawley, Town Clk.

GRAND RAPIDS, MICH.—L. W. Anderson, Cy. Engr., writes us that Common Council has not yet ordered construction of West Side sewer. Noted on Jan. 19.

COLDWATER, MICH.—National Construction Co., South Bend, Ind., at $28,662, was low bidder Jan. 26 for completing trunk sewers for this city. Itemized bids are given under Contract Prices.

MOMENCE, ILL.—Contract for constructing ten blocks of sewer was let to R. SHANNON, Joliet, Ill., at $2,950. E. P. Harney is Cy. Atty.

MOLINE, ILL.—The Board Local Improvements is stated to have awarded contract to DAEBELLIEHN & JORDAN, at $3,440, for storm drains. Wm. C. Bennett, Pres.; Henry G. Paddock, Cy. Civil Engr.

KEOKUK, IA.—J. Ross Robertson, City Engr., is reported to be preparing plans for about 2,000 lin. ft. of sanitary sewers, to be constructed in the spring.

TOPEKA, KAN.—Itemized estimate of Sixth Ward sewer, for which bids are asked until Feb. 6, has been prepared by James F. McCabe, Cy. Engr., as follows: 19,339 ft. of 8-in. sewer pipe, estimated cost $18,401; 475 ft. of 10-in., at $333; 4,821 ft. of 12-in., at $6,990; 4,863 ft. of 15-in., at $7,294; 2,993 ft. of 18-in., at $5,537; 802 ft. of 21-in., at $2,457; 1,700 ft. of 24-in., at $5,185; 3,630 ft. of 27-in., at $11,797; 650 ft. of 30-in., at $2,503; 1,359 ft. (2-ring brick) 30-in., at $4,050; 75 manholes (all depths), $4,650; 47 inlets (all depths), $752; ten flushing tanks, $650; 3,800 lin. ft. galvanized iron pipe, $950; 3,700 cu. yds. solid rock excavation, $12,025; 1,500 cu. yds. loose rock excavation, $1,125; 20,000 lin. ft. sheeting and timber for bracing, $800; total estimated cost, $84,699.

CAPE GIRARDEAU, MO.—Granbery Jackson, C. E., Nashville, Tenn., has prepared plans for sewer system. City has voted to begin construction.

KIRKWOOD, MO.—J. M. Douglass is Engr. in charge of proposed sewer system to be installed here.

HOUSTON, TEX.—Bids are asked by Arthur Lipper, Cy. Secy., until noon, Feb. 6, for constructing about 6,100 ft. of 24-in. sanitary pipe sewer; 5 to 10-ft. cut. A. L. Jackson, Mayor; F. L. Dormant, Cy. Engr.

PORTLAND, ORE.—Council has appropriated $5,000 for repair of Tanner Creek sewer.

LOS GATOS, CAL.—Bonds for $24,000 will be sold to provide funds for bridge and sewer work.

SAN DIEGO, CAL.—F. H. Dixon, Secy. Bd. Public Works, writes us that contract was awarded on Jan. 19 for sewers, as follows: P. A. HOWARD & JOHN T. LONG, Los Angeles, at $82,712. Other bids were: Stansbury & Powell, Los Angeles, $85,900; Worswick Street Paving Co., Fresno, $88,000; Hall Construction Co., Los Angeles, $84,881.

SANTA ROSA, CAL.—L. E. Ricksecker, Cy. Engr., has prepared estimates for proposed north side sewer extensions. Total cost, $38,419. Approximate cost of north side sewers, $10,886; south side, $12,845; storm water pipe, $7,448; factory pipe in First St., $2,100.

LOS ANGELES, CAL.—THE SOUTHERN CALIFORNIA BRICK CO. has been awarded contract to supply 200,000 brick at $8.90 per M. THE LOS ANGELES PRESSED BRICK CO. was let contract for 800,000 brick at $10 per M. New bids will be received for supplying 1,000,000 brick.

## GARBAGE DISPOSAL—STREET CLEANING

*The names of parties awarded contracts are printed in capital letters.*

NEW YORK, N. Y.—Bids are asked by John McG. Woodbury, Comr. Street Cleaning, until Feb. 15 for construction of rubbish incinerator at Delancey Slip, Borough of Manhattan. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by Bureau Yards and Docks, M. T. Endicott, Ch., Washington, D. C., until Feb. 25, for constructing garbage incinerating plant at Navy Yard, New York. Specifications are on file at office of Engineering News, 220 Broadway, New York.

NIAGARA FALLS, N. Y.—Board Public Works has been authorized to call for bids for six garbage wagons, to cost not more than $1,500.

WILMINGTON, DEL.—Mississippi Valley Garbage Destroying Co. has applied for incorporation under the laws of this state. Geo. Mengel, Davenport, Ia., is interested.

## STREETS AND ROADS.

*The names of parties awarded contracts are printed in capital letters.*

BOSTON, MASS.—John Harrington, of Boston, was the lowest bidder, at $20,312, for furnishing cut granite curb for new Cambridge bridge. The Pigeon Hill Granite Co. was the lowest bidder for 325,000 granite paving blocks, at $54 per M., for the same work.

WORCESTER, MASS.—Bids are asked until Feb. 6 for furnishing approximately 35,000 lin. ft. curbstone, 2,000 lin. ft. circular curbstone, 12,000 sq. yds. paving blocks, etc. Walter E. Hassam, Street Comr.

CORNWALL, CONN.—Bids are asked by Board of Selectmen until Feb. 15 for grading four sections of road. John E. Calhoun, Chn.

NEW YORK, N. Y.—Bids are asked by Maurice Featherson, Comr. of Docks, until Feb. 7, for furnishing material and repairing asphalt pavement along North and East Rivers.

NEW YORK, N. Y.—The following bids were received by Department of Docks for paving with asphalt Pier 60, 10,000 sq. yds.: Pier 61, 10,000 sq. yds.; Bloomfield St. pier, 3,100 sq. yds.; SICILIAN ASPHALT PAVING CO., Times Bldg., $24,300 (awarded contract); Uvalde Asphalt Paving Co., 1 Broadway, $24,300; New York & Bermudez Co., 114 Liberty St., $28,833; Warner-Quinlan Asphalt Co., 32 Broadway, $38,880.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of Bronx, until Feb. 14 for regulating, grading, paving, etc., on portions of several streets.

Bids will also be received until Feb. 21 for paving with wood blocks on concrete foundation on a number of streets.

NEW YORK, N. Y.—The following were the lowest bids received Jan. 24 by Louis F. Haffen, Pres. Boro. of Bronx, for improving various streets: Crotona Park, asphalt block, Barber Asphalt Paving Co., $55,145. Quarry Road, regulating and grading, Bellew & Merritt, $18,591; East 179th St., regulating and grading, Jos. Gallo, $9,195; Bryant Road, regulating and grading, Jos. Gallo, $27,617.

NEW YORK, N. Y.—Bids were received Jan. 24 by President Bronx Borough for regulating and grading, setting curbstones, flagging, etc., in Quarry Road, from Third Ave. to Arthur Ave., the three lowest bidders being Bellew & Merritt Co., Tuckahoe, N. Y., $18,591; T. V. Smith Contracting Co., 147 E. 125th St., New York, $18,675; C. T. McCabe, Fordham, N. Y., $18,797. Bids were also received for regulating, grading, setting curbstones, etc., in Bryant Ave., and for asphalt paving in Crotona Ave., the lowest bidders being respectively Jos. Gallo, 127 Mulberry St., New York, at $27,617, and Barber Asphalt Paving Co., 114 Liberty St., New York, at $55,145. Itemized bids for last two pieces of work are given under Contract Prices.

BUFFALO, N. Y.—Bids were opened Jan. 26 by Commissioner Public Works for paving and repaving several streets. For paving Champlin St. with asphalt the German Rock Asphalt & Cement Co. was lowest bidder, at $3,020; with brick, L. H. Gipp was lowest, at $3,750. West Parade Ave., asphalt, Barber Asphalt Paving Co., at $4,055; brick, Johnson & Mumm, $8,104. Repaving Commercial St., asphalt, German Rock Co. was lowest, at $2,960.

ALBANY, N. Y.—Bids are asked by Board of Contract and Supply until Feb. 6 for improving South Pearl St. by grading, curbing, paving roadway with asphalt blocks, repairing sidewalk and building receiving basins. Isidore Wachsman, Clk.

ALBANY, N. Y.—The Board awarded the contract for repaving of Dallius St. to JOHN J. DOYLE, for $33,539.

ATLANTIC CITY, N. J.—In reference to item in last issue relative to the paving of Atlantic City, J. W. Hackney, Cy. Engr., writes us that the City Council advertised for bids for street improvements, which were received Jan. 16. Among other things, bids for steel-protected concrete curbing were included. City Council, being advised that it could not legally provide by ordinance for using either granite or concrete curbing, but must specify which of the two, determined to obtain bids upon different materials before passing any ordinance, then select the material, and pass the ordinance. Bids were duly received, and consideration of them was suspended, pending the passage of an ordinance. This ordinance had been introduced providing for asphalt pavement with brick gutters and granite curbs, and had passed two readings. On Jan. 23 the title of the ordinance was stricken out and all bids were rejected.

WILDWOOD, N. J.—Bids will soon be asked by Borough Council for constructing 125,000 sq. ft. cement sidewalks and 25,000 lin. ft. cement curbing.

JERSEY CITY, N. J.—The Street and Water Board has awarded to the UVALDE ASPHALT CO. the contract for the improvement of Carlton Ave. Chas. Van Keuren is Ch. Engr. of Bd.

YORK, PA.—Bids are asked by State Highway Department until Feb. 24 for construction of 7,085 ft. of road in York County. Plans and specifications may be seen at office of County Commissioners and at the office of State Highway Department, at Harrisburg.

MEADVILLE, PA.—W. A. Doane, Cy. Engr., informs us that bids will probably be opened Feb. 15 for paving Park Ave., 12,000 sq. yds., with brick or asphalt block. Est. cost, $25,000.

WILKESBARRE, PA.—Bids are asked by Fred H. Gates, Cy. Clk., until Feb. 27 to remove seven miles of cobble stone pavement on city streets, and to curb and repave streets with vitrified fire clay paving brick. Plans and specifications may be seen at office of W. V. Ingham, Cy. Engr. (Advertised, Engineering News.)

ERIE, PA.—Mayor Hardwick has approved ordinance providing for laying out a parkway in Liberty St.

HARRISBURG, PA.—The United Ice & Coal Co., City, was the lowest bidder, at $7,457, for rebuilding a section of Reading Pike.

NORTON, VA.—Contract for building 12 miles of road from the Virginia Coal & Iron Co. has been awarded to J. R. RHODES & CO., of Knoxville, Tenn.

AUGUSTA, GA.—It is reported that Jackson St. will be paved this year, the cost estimated not to exceed $18,000. Nisbet Wingfield is Cy. Engr.

BIRMINGHAM, ALA.—Contract for paving on Highland Ave. with creosoted wooden blocks was let to UNITED STATES FOOD PRESERVING CO., 29 Broadway, New York.

LOUISVILLE, KY.—It is reported that bids will be soon invited by Board Public Works for paving on several streets. J. B. F. Breed is Cy. Engr.

PORTSMOUTH, O.—Board Public Service has been instructed to proceed with the preliminary plans for a large amount of paving.

MT. GILEAD, O.—Bids are asked by Board Public Service until Feb. 8 for grading with brick or block a portion of High St. Wm. F. Wieland, Clk.

CLEVELAND, O.—Bids are asked by Board Public Works until Feb. 8 for grading, draining, curbing and paving with brick on several streets. A. R. Callow, Secy.

ELYRIA, O.—We are informed that the contract for paving Middle Ave. has been let to BARBER ASPHALT PAVING CO., of Cleveland.

MARION, IND.—Bids are asked until Feb. 6 for construction of cemetery boulevard. County Auditor can inform.

INDIANAPOLIS, IND.—Bids are asked by Board of Park Commissioners until Feb. 10, 10 a. m., for construction of Fall Creek Boulevard. Est. cost, $72,000. Hiram Brown, Chn.

KALAMAZOO, MICH.—Bids are asked until Feb. 13 for about 49,000 sq. yds. of street paving and about 24,000 lin. ft. cement combined curb and gutter, according to plans and specifications at office of M. C. Taft, Cy. Engr. Harry W. Bush, Cy. Clk. (Advertised, Engineering News.)

GRAND RAPIDS, MICH.—Scribner St. will be paved with brick. L. W. Anderson is Cy. Engr.

DANVILLE, ILL.—We are informed that several paving contracts will probably be let by the city in about two or three months. W. H. Martin is Cy. Engr.

DES MOINES, IA.—Bids are asked by Board Public Works until Feb. 16 for curbing with Portland cement East 13th St., about 5,218 lin. ft.

ST. PAUL, MINN.—Contract for laying about 400,000 sq. ft. cement sidewalks during the year 1905 has been awarded to L. G. WASHINGTON, for $40,821.

Contract for constructing wooden sidewalks during 1905 has been awarded to P. J. RYAN, for $14,870.

SOUTH McALESTER, IND. T.—The city ... pave the streets with vitrified brick. Mayor can inf...

TACOMA, WASH.—It is stated that bids ... be called for some time in March for asphalt pav... out eight miles of streets. Frank L. Davis is Cy. Eng...

SEATTLE, WASH.—A. C. Goerig was th... west bid- der, at $3,206, for planking of Ewing St. ... H. Thom- son is Cy. Engr.

ASTORIA, ORE.—Bids are asked by C... Goodale, Q. M., until Feb. 6 for grading and consti... ing plank sidewalks at Fort Stevens.

OCEAN PARK, CAL.—A contract has been ... by Fred. H. Rindge, owner of Malibou ranch, for co... ction of a roadway from Santa Monica Canyon to M... u ranch, a distance of 30 miles.

SAN FRANCISCO, CAL.—Thos. P. Wo... rd, Cy. Engr., has been directed by Board Public W... to pre- pare new specifications for paving of Mis... St., for which $80,000 was appropriated in the bud...

MIDLAND, ONT.—It is proposed to raise ...000 for street improvement, including cement walks.

STRATFORD, ONT.—City Council has de... to con- struct the following pavements: Downie St., a... t block, $13,080; Downie St., vitrified block, $17,005; ... rio St., asphalt, $61,972; Brunswick St., vitrified br... $9,200; Waterloo St., vitrified brick, $11,654.

## MANUFACTURING PLANTS

*The names of parties awarded contracts ar... printed in capital letters.*

PEABODY, MASS.—R. M. Keith Co.'s tannery was damaged by fire to the extent of $25,000 and will be repaired. R. M. Keith, Mgr.

OSWEGO, N. Y.—The packing department, kiln room and scraping room of starch plant of Corn Products Co. were destroyed by fire. Loss, $150,000.

BROOKLYN, N. Y.—H. Pohlman, Arch., ... Fifth Ave., has plans for a brick factory for A. Entelman, 407 77th St. Cost, $10,000.

TRENTON, N. J.—The United & Globe Rubber Co. will erect a three-story brick plant, 60 × 200 ft. Boiler house 50 ft. square will also be erected. Abraham Swan is Arch.

ASBURY PARK, N. J.—It is stated that the water department will build a tool house and machine shop. Bids are wanted. Address Mayor Stoy.

READING, PA.—L. D. Lance, Arch., has plans for a three-story building here.

PHILADELPHIA, PA.—P. J. HURLEY, 1216 Chancellor St., has contract for a six-story manufacturing building at 12th and Race Sts., for Harrison & Co.

PITTSBURG, PA.—The Thomas R. Mackey Baking Co. has been incorporated with $5,000 capital. Thos. R. Mackey, 353 South Rebecca St., is one of the incorporators.

HARRISBURG, PA.—T. H. Hamilton, Arch., has drawn plans for a bakery for Bernard Schmidt. One building will be 40 × 150 ft., three stories, of brick and steel construction. Another building, one story, 56 × 62 ft. It is reported that bids are now being received. Cost, $15,000.

PHILADELPHIA, PA.—C. E. Schermerhorn, Arch., 430 Walnut St., has plans ready for bids for a manufacturing plant, to consist of foundry, power house, stable, etc.

It is stated that Henry C. Dahl, 241 South Sixth St., wants sub-bids for a four-story factory building.

F. M. Day & Bro., Arch., 927 Chestnut St., have plans ready for bids for a five-story factory and store, at 1220 Race St., for Rice & Co.

Stephano & Bros. will erect a $150,000 cigarette manufacturing plant on site of properties at 1012-14 Walnut St. It will be a seven-story and basement structural steel fireproof building, 44 × 117 ft. WM. STEELE & SONS are contractors.

READING, PA.—The Prospect Dye Works, recently damaged by fire, will be rebuilt. Otto Reissmann is Pres.

PHILADELPHIA, PA.—The Hulton Dyeing & Finishing Co., 2712 Jasper St., has invited bids for an addition to their plant.

YORK, PA.—Geo. W. Gilbert & Co. have been awarded contract for a factory for York City Cigar Co. Brick, four stories, 180 × 40 ft.

WILKESBARRE, PA.—The Luzerne County Brewing Co. will soon have plans started for a brewery at this place.

ROCKDALE, PA.—The Brookside Mills here will soon be enlarged to double its present capacity.

BALTIMORE, MD.—Henry Laupheimer, of Kraus & Co., Hanover and Pratt Sts., has awarded contract to J. H. MILLER, builder, 110 Dover St., for general repair and alteration of manufacturing building located at 2411 Eastern Ave.

C. L. WRIGHT, Builders' Exchange, has been awarded contract to build an addition to plant of Southern Embroidery Co., to be erected on Waesche St. Brick, three stories, 30 × 115 ft. Cost, $20,000.

R. H. FORD, 407 St Paul St., have been awarded contract for bakery at Barre St. and Webster Alley.

NORFOLK, VA.—The Norfolk Yarn Mills have filed a mortgage securing an issuance of bonds for $35,000, which amount will be expended for carding and spinning machinery and other apparatus during the year. The company makes mule spun yarn.

UNION, S. C.—The Crescent Steam Laundry Co. will establish a laundry here. Machinery purchased.

JONESVILLE, S. C.—The Jonesville Mfg. Co., manufacturers of peeler yarn and hosiery, is planning for the enlargement of its plant by 5,000 mule spindles and looms to take care of its present output from 7,000 spindles.

ATLANTA, GA.—Continental Gin Co. has awarded to J. W. LILY the contract for building a mill building, 50 × 140 ft. Cost, $8,000. Morgan & Dillon are Archs.

BRUNSWICK, GA.—A plant for the manufacture of cement stones will be established here by John E. Du Bignon and others.

BIRMINGHAM, ALA.—The Sheffield Steel & Iron Co. contemplates building a steel mill in this district, at a cost of $2,000,000.

UNIONTOWN, ALA.—The Ellawhite Cotton Mills, of Uniontown, have issued $75,000 of additional stock, with which it is expected that the factory will be enlarged, new spindles put in and additional capacity provided for in other ways. Incorporators: R. F. Hall, J. C. Moss, A. C. Davidson and others.

GADSDEN, ALA.—The Coosa Pipe & Foundry Co. will erect a soil pipe plant with 10,000 tons capacity annually. The power plant will consist of two 75-HP. boilers and a 100-HP. engine to drive blower and shafting. This part of the plant has not yet been ordered. M. W. Bush is Gen. Mgr.

MONTGOMERY, ALA.—The Montgomery Mattress Co. will build a large mattress factory here. Secretary of the Commercial and Industrial Association can give information.

GULFPORT, MISS.—The Consolidated Casket & Trunk Co., composed of Chicago people, will erect a combined casket and trunk factory here at a cost of about $25,000. Secretary of Business League can give information.

SAINT BERNARD, LA.—The Joullian Co., of Biloxi, Miss., will erect an oyster canning factory here, to have a capacity of 1,000 barrels of oysters daily.

KNOXVILLE, TENN.—W. J. Oliver, the railroad contractor and manufacturer, is having plans made for construction of a foundry.

MEMPHIS, TENN.—The plant of the Valley Oil Mills was destroyed by fire. Loss, $150,000.

GIRARD, O.—The F. Krehl & Sons Leather Co., contemplates rebuilding its plant in the spring, which was recently destroyed by fire.

CLEVELAND, O.—The Interstate Engineering Co., Williamson Bldg., has let the general contract to Hunkin Bros. Construction Co., 314 Cuyahoga Bldg., for an addition to Cleveland Worsted Mills Co.'s plant, on Broadway.

LAPORTE, IND.—Fire destroyed the salting plant here of the H. J. Heinz Pickle Co., of Pittsburg, Pa. Loss, $75,000.

SOUTH BEND, IND.—The Studebaker Bros.' Mfg. Co. will build a plant here to manufacture automobiles. Cost, $175,000. S. S. Beman is Arch., Chicago, Ill.

MENOMINEE, MICH.—The plant of the Menominee Electric Mfg. Co. was destroyed by fire. Loss, $50,000.

PERRY, MICH.—It is reported that the plant of the Perry Glove & Knitting Co. will be doubled in size and capacity at once.

KALAMAZOO, MICH.—The Kalamazoo Brewing Co., 818-822 Lake St., invites bids for building additions to its brewing plant.

LUDINGTON, MICH.—The Tubbs Mfg. Co. is having plans made for a three-story brick addition, 50 × 200 ft., to its plant.

BATTLECREEK, MICH.—Lutz & Schramm Co., Allegheny, Pa., are figuring on erecting a pickling plant, at Battlecreek.

ONALASKA, WIS.—The J. S. Gedney Pickle Co. will rebuild its factory, recently destroyed by fire, at once.

KANSAS CITY, MO.—The Palmer Boiler Works has had plans made for a plant, to be erected on the west side of Kaw River.

BLYTHEVILLE, ARK.—The Chicago Mill & Lumber Co., of Chicago, will build a new band mill and woodworking plant here.

WAXAHACHIE, TEX.—The Waxahachie Ice Works will enlarge and improve the plant. Machinery purchased. Judge H. Y. Hogsett, of Fort Worth, is Pres.

## MISCELLANEOUS CONTRACTS.

*The names of parties awarded contracts are printed in capital letters.*

LEVEE.—New Orleans, La.—Contract for building new Adams Ave. levee, requiring 10,000 cu. yds. earthwork, has been let to FREDERICK CAMORS for $3,500.

REPAIRING SCOWS.—New York, N. Y.—Bids are asked by John McG. Woodbury, Comr. Street Cleaning, until Feb. 6 for furnishing material and labor for repairing 21 scows.

STONE CRUSHERS.—Washington, D. C.—Bids are asked by Isthmian Canal Commission until Feb. 15 for furnishing two stone crushers of the gyratory type. (Advertised, Engineering News.)

TUNNEL.—Boston, Mass.—Bids are asked by Boston Transit Commission, B. Leighton Beal, Secy., until Feb. 14 for constructing Sec. 4 of Washington St. tunnel. (Advertised, Engineering News.)

BRASS AND IRON CASTINGS.—Niagara Falls, Ont.—Contract for brass and iron castings for Welland Canal for 1905, has been let to NIAGARA FALLS MACHINE & FOUNDRY CO., Niagara Falls, Ont.

DREDGING.—Norfolk, Va.—Coastwise Dredging Co., Norfolk, Va., at $30,800, was low bidder Jan. 9 for about 400,000 cu. yds. dredging in Norfolk Harbor. Itemized bids are given under Contract Prices.

LATRINES.—New Orleans, La.—John S. Kelly, New Orleans, La., at $9,980, was only bidder for constructing latrines at local naval station, bids for doing which were opened Jan. 28 by Bureau Yards and Docks.

WHARF.—New Orleans, La.—Bids are asked by Port Commissioners, Hugh McClosky, Pres., until Feb. 7, for constructing Erato St. wharf. J. F. Coleman, Hibernia Bank and Trust Bldg., New Orleans, is Engr.

DREDGING, BRIDGES.—Dover, Ont.—Bids are asked by H. N. Bechard, Comr., Dover, South, P. O., until Feb. 23, for dredging about 3½ miles in Rivard Drain, Township of Dover. Bids are wanted also for building two steel and wooden bridges over the drain. A. McDonnell, Engr., Chatham, Ont.

DIKE WORK.—New York, N. Y.—Bids are asked by Park Commissioners, Arsenal Bldg., until Feb. 9 for furnishing all labor and material for repairing and strengthening dyke along Cromwell's Creek water front of Macomb's Dam Park, city of New York.

DIKE.—Vallejo, Cal.—Contract for constructing longitudinal dike at Mare Island Navy Yards, bids for doing which were received Jan. 14 by Bureau Yards and Docks, is stated to have been let to HEALY, TIBBITTS & CO., 22 Market St., San Francisco, Cal., for $92,300.

DREDGES.—San Francisco, Cal.—W. P. Hammond, head of the syndicate owning most of the dredging ground in California, is now in Milwaukee, Wis., placing orders for three additional dredges, to cost $390,000. Later on, five additional dredges will be ordered at a cost of $650,000.

DREDGING.—Washington, D. C.—Bids are asked by Bureau Yards and Docks, M. T. Endicott, Ch., until Feb. 25 for dredging about 65,000 cu. yds. from reserve basin at Navy Yard, League Island, Pa. Specifications for above work may be seen at office of Engineering News, 220 Broadway, New York.

DITCHES.—Storm Lake, Ia.—Bids are asked by the Board of Supervisors of Buena Vista County until March 7 for the construction of drainage ditches in Dist. No. 1, consisting of 148,827 cu. yds. in Section No. 1 and 7,274 cu. yds. in Section No. 2. L. A. Torkelson, Ch.; L. D. Hoxsey, Co. Audr. (Advertised, Engineering News.)

FILLING AND GRADING.—Hartford, Conn.—Bids are asked by Connecticut River Bridge and Highway District Commission, 850 Main St., until Feb. 27 for providing material and filling and grading railroad tracks, streets and approaches, approximately 325,000 cu. yds. Plans and specifications may be obtained at office of Edwin Dwight Graves, Ch. Engr. (Advertised, Engineering News.)

## READERS' WANTS

**This Department contains special requests, and detailed items, from persons in the market for supplies, and from others asking for the names and addresses of firms manufacturing certain tools, machinery and supplies required for work in which they are interested. ENGINEERING NEWS will be glad to furnish at once, free of cost, names and addresses of firms making the machinery or material desired, after which the item will appear in this column, UNLESS OTHERWISE REQUESTED, which request will be honored absolutely. The information in all cases will be sent to our advertisers handling the material wanted, or to other firms should it be out of the line of our advertisers. Every day we are receiving such requests with the understanding that it must not appear in the paper.**

TRACTION ENGINE.—Sour Lake, Tex.—Homer Bramble is in the market for a traction engine.

BRICK MACHINERY.—Sumner, Fla.—J. P. Little is in the market for sand-lime brick machinery.

STEAM SHOVEL.—Russellville, Ala.—The Ala.-Va. Iron Co. is in the market for a 1½-yd. steam shovel.

STORAGE BATTERIES.—Stateville, N. C.—J. C. Steele & Sons are in the market for 125-volt storage batteries.

AUTOMATIC FIRE SPRINKLERS.—Reidsville, N. C.—The F. R. Penn Tobacco Co. is in the market for the above.

CONCRETE MIXERS.—Baltimore, Md.—D. A. Leonard, 42 Builders' Exchange Bldg., wants catalogues of concrete mixers.

ICE-MAKING MACHINERY.—Hampton, Va.—W. F. Brittingham, 514 Annistead Ave., is in the market for the above.

STREET SWEEPER.—Winston-Salem, N. C.—L. B. Brickenstein, Chn. Com., is in the market for a street sweeper.

WOODWORKING MACHINERY.—Baltimore, Md.—The Steiner Mantel Co., 8th St. and Fairmount Ave., is in the market for the above.

DRY-KILN.—Varnville, S. C.—E. R. Ginn is understood to be in the market for a small dry kiln, etc., and saw mill machinery.

OSCILLATING ENGINES.—Birmingham, Ala.—The Bartlett-Tewksbury Machinery Mfg. Co. are reported in the market for the above.

CREOSOTING CYLINDERS, ETC.—New Orleans, La.—The New Orleans Wood Preserving Co. is reported in the market for cylinders, oil, etc.

SAW MILL MACHINERY.—Ajax, La.—E. E. Middleton, is in the market for saw mill machinery of 30,000 ft. capacity. Prices on steam feed are also wanted.

ENGINES AND BOILERS.—Delray, Fla.—The Fruit & Vegetable Growers' Association is in the market for a 30-HP. and a 15-HP. engine and two 80-HP. boilers.

LITHOGRAPHING.—Washington, N. J.—H. P. Drake, of the D., L. & W. R. R., Washington, N. J., writes us that he wishes the address of firms lithographing maps.

SKATES.—Roanoke, Va.—R. W. Shelmire, c/o Ch. Engr. N. & W. Ry., writes us that he wants the addresses of manufacturers of skates, more particularly roller skates.

CARD INDEX SYSTEM.—New York, N. Y.—Addresses of manufacturers of card index systems for engineering offices are wanted by E. H. F., c/o Engineering News, New York.

CEMENT TOOLS.—Essex Junction, Vt.—W. S. Teachout writes us that he wants the names of firms dealing in cement tools, such as are used for sidewalks and floors, jointers, etc.

ROAD SCRAPERS.—Germany.—F. S. Hannah, U. S. Consul at Magdeburg, reports that he has inquiries for road scrapers, and wishes to receive catalogues from manufacturers, etc.

BELGIAN BLOCK PAVEMENT.—St. Paul, Minn.—The Northwestern Fuel Co., G. H. Hutchinson, Ch. Engr., Pioneer Press Bldg., writes us that it wants prices on Belgian block pavements.

WIRELESS TELEGRAPH.—Washington, D. C.—Bids are asked by Bureau of Supplies and Accounts, until 10 o'clock a. m. Feb. 7, for delivering and installing wireless telegraph outfits on board the U. S. S. Colorado and West Virginia, at the navy yard, League Island, Pa., and the works of the Newport News Shipbuilding and Dry Dock Company, Newport News, Va., respectively. H. T. B. Harris, Paym.-Gen., U. S. N.

PIER.—Asbury Park, N. J.—Bids for steel work for the new pier which is to be erected at this place by the Asbury Park Pier Co. are now being received and contracts will be let soon. Bids for the structural work are to be taken as soon as plans are completed. A theater and a bowling alley are to be erected in connection with the pier. D. W. Phelan, 277 Broadway, New York, is Treasurer of the company; Engineering Company of America, 74 Broadway, New York, are Engrs., and Jesse W. Starr is general promoter and contractor for the work.

PNEUMATIC TUBE SYSTEMS.—Ottawa, Ont.—Secretary, Department Public Works, Ottawa, is stated to be calling for bids until Feb. 9 for construction of postal pneumatic tube systems for Montreal and Toronto. The Toronto system will take 36,000 ft. of smoothbore cast-iron piping and the Montreal equipment calls for 10,000 ft. The Government proposes to furnish pipe and calls for tenders to lay and join same and to supply necessary castings, elbows and fittings, including the terminal transmitting and receiving machinery and carriers, and erection of same.

BOILER AND MECHANICAL DRAFT PLANT.—West Point, N. Y.—Following bids were received Jan. 28 by Major J. M. Carson, Jr., Q. M., U. S. M. A., for furnishing and installation of boiler and mechanical draft plant: Ralph J. F. Gerstle Co., 341 East 44th St., New York, $39,900; for substituting "Treadkill" shaking grates, $884; Oil City Boiler Works, 39 Cortlandt, St., New York, $37,000; Heine Safety Boiler Co., 11 Broadway, New York, $30,350; The Stirling Co., Chicago, Ill., $30,600; A. D. Granger Co., 96 Liberty St., New York, $36,375; Abendroth & Root Mfg. Co., Newburgh, N. Y., $29,763; if headers and bends of cast steel are desired instead of iron and steel mixture castings, $34,178; The Babcock & Wilcox Co., 85 Liberty St., New York, $37,447; cross drum type boilers with forged steel headers, set in accordance with sheet 3799, $27,500.

PILES.—Washington, D. C.—Following bids were received Jan. 24 by Isthmian Canal Commission for furnishing (1) Class A, 2,000 yellow pine or Douglas fir piles, not creosoted, and (2) Class B, 2,000 yellow pine or Douglas fir piles, creosoted: J. A. Reynolds & Bro., 85 West St., New York, (1) $20,000, pine. J. H. Baxter, 6 California St., San Francisco, Cal., (1) $28,687, Douglas fir. Pope & Talbot, 314 California St., San Francisco, Cal., (1) $33,000; (2) $63,250, Douglas fir. Bowring & Co., 17 State St., New York, (1) $29,600; (2) $69,000, Douglas fir. H. M. Newhall & Co., 309 Sansome St. San Francisco, Cal., (1) $25,850; (2) $59,627, Douglas fir. Nichols Bros., 74 Cortlandt St., New York, (1) $30,000, Georgia pine. Atlantic Creosoting & Wood Preserving Works, Norfolk, Va., (2) $48,825, pine. Norfolk Creosoting Co., Norfolk, Va., (2) $39,575, pine. J. J. Moore & Co., San Francisco, Cal., (1) $33,917; (2) $59,504, Douglas fir. Johnson & Wimsatt, Washington, D. C., (1) $23,150, pine. Wyckoff Pipe & Creosoting Co., Inc., Stamford, Conn., (2) $43,250, pine. Puget Sound Timber Preserving Co., San Francisco, Cal., (1) $32,750; (2) $63,825, Douglas fir. American Mercantile Co., Seattle, Wash., (1) $20,000, Douglas fir. Charles Nelson Co., 6 California St., San Francisco, Cal., (1) $40,000; (2) $74,750, Douglas fir. J. K. Joice, Fisher Bldg., Chicago, Ill., (1) $32,412, pine. Arthur Gamewell, Blaine, Wash., (1) $41,575, Douglas fir. American Creosoting Works, Ltd., (2) $53,325, pine. West Pascagoula Creosoting Works, West Pascagoula, Miss., (2) $38,125, pine.

## FOREIGN CONTRACTS—EXPORT NEWS.

ELECTRIC PLANT.—England.—Town Council of Bradford proposes to borrow about $245,000 for electricity purposes.

ELECTRIC TRAMWAYS.—England.—Corporation of Yarmouth is about to expend $280,000 on electric tramways.

ELECTRIC CRANES, ETC.—France.—A decree has been published authorizing the Nice Chamber of Commerce to erect electric cranes and other machinery necessary for improvement of conditions of work at port of Nice.

ELECTRIC LIGHTING.—England.—The borrowing by the Town Council of Barrow of $175,000 for electric lighting purposes has been sanctioned by the Local Government Board.

BUILDINGS, POWER PLANT.—Italy.—Town Council of Turin has approved a plan for the complete transformation of the buildings of the town. Estimated cost of work is about $8,000,000. Project includes hydro-electric plant, new aqueduct and school buildings.

CHANNEL IMPROVEMENT.—Bermuda.—The official advertisement for deepening, widening and buoying St. George's Channel, Bermuda, which was mentioned in our issue of Jan. 26, appears in this number of the Engineering News. A plan, drawing, sections, form of contract and tender may be seen at office of British Consul General, 17 State St., New York.

DRAINAGE SCHEME.—South Africa.—James Collie, 15 Barrack St., Cape Town, South Africa, has the contract for carrying out a drainage scheme for the watering places of Kalk Bay and Muizluberg, where the main sewer skirts the seashore for five miles. About $200,000 is to be expended in sewers and electric lighting. Mr. Collie would like catalogues of excavators, water-works tools, trench-cutting machines and contractors' hand power pumps capable of dealing with sand, etc.

BOILER, BLOW PIPE AND FANS.—Knoxville, Tenn.—The Proctor Furniture Co. is in the market for the above.

COAL WAGONS, PICKS, SHOVELS, ETC.—Chenoa, Ky.—The Bosworth Coal & Coke Co. is in the market for the above.

ROPE DRIVES.—Charlotte, N. C.—The Catawba Power Co., W. S. Lee, Jr., Vice-Pres. and Ch. Engr., writes us that the company is in the market for two 1,500 HP. American system rope drives.

BOILERS, WATER PIPE, TANKS, HYDRANTS, FITTINGS, ETC.—Apopka, Fla.—The Apopka Water & Light Co. is reported as in the market for the above, in connection with the proposed water-works.

PLUMBING, HEATING, ELECTRIC LIGHTING, ETC.—Citronelle, Ala.—E. G. Bradley and F. L. Tool are reported as in the market for the above mentioned supplies, hotel equipment, furniture, etc., for a 100-room hotel.

ENGINE, BOILER AND PLANING MILL MACHINERY.—Lattimore, N. C.—W. D. F. Green will soon be in the market for a 25-HP. engine and 30-HP. boiler and a complete mill plant, including a 5,000-lb. double cylinder planer, etc.

RAILWAY SUPPLIES, MACHINERY, CABLES, HOISTS, ETC.—China.—W. M. Holmes, Act. Ch. Engr., Canton-Hankow Ry., Canton, China, writes us that he wishes catalogues from firms manufacturing the above-mentioned supplies.

ELECTRICAL SUPPLIES.—China.—Geo. E. Anderson, U. S. Consul at Hangchau, reports that he wants catalogues from manufacturers of small electric light and power plants, gasoline engines, etc., as quite a number of such plants are proposed here.

SAND CEMENT BRICKS.—Montreal, Que.—Kennedy, Stinson & Co., 110 Temple Bldg., writes us that he wants to receive data regarding sand cement bricks, and requests that firms send their catalogues, price of bricks or machines, first cost of a plant of 50,000 capacity, etc.

BUILDING AND ARCHITECTS' SUPPLIES.—Java, D. W. I.—H. F. Doeleman, 2009 Callow Ave., Baltimore, Md., writes us that G. P. N. Elenbaas, Arch. and Builder, at Welterreden, Java, wants catalogues from firms who are making supplies for architects and builders. Address Mr. Elenbaas direct.

GRINDING MACHINERY.—Niagara Falls, N. Y.—The International Acheson Graphite Co., of Niagara Falls, writes us that it is in the market for machinery to grind graphite from 10 mesh to 200 mesh. A tube mill is now used and a mill of the beater arm variety is being experimented with. Both have air separating systems. Those interested in the above are asked to send descriptions of apparatus and results of tests.

2,000,000 OAK STAVES.—Germany.—Jos. J. Langer, U. S. Consul at Solingen, Germany, reports that he has an inquiry for 2,000,000 American oak staves and bottoms, to be delivered c. i. f. Rotterdam, for cash, in the following sizes in inches: Staves, cylinder-sawed, with flat ends: 24 long, 9½ wide, ⅝ thick; 28 long, 11 wide, ⅝ thick; 30 long, 12 wide, ⅝ thick. Bottoms, parts: 14 long, 20 wide; 16 long, 24.5 wide; 18 long, 26 wide. Thickness of bottom parts, 20 millimeters (0.788-in.). Any offers or information on the above which he receives will be immediately referred to the inquirer.

## TRADE PUBLICATIONS.

(The standard sizes for pamphlets and trade catalogues recommended by all the principal engineering societies of the United States are: 3½ × 6 ins., 6 × 9 ins., and 9 × 12 ins.)

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper, oblong; 9 × 6 ins.; pp. 29; illustrated.

This is No. 49 of the firm's "Record of Recent Construction," and deals with its four-cylinder balanced compound locomotives. Several engines of this new type are illustrated and described, and particulars of their performance are given.

MECHANICAL FILTERS.—The New York Continental Jewell Filtration Co., 15 Broad St., New York City. Paper; 9 × 6 ins.; illustrated.

A list of New York, Continental, Jewell, Hyatt, Warren, American, National and Blessing types of filters, installed in connection with 210 cities and towns in the United States and in foreign countries, is given. The combined capacity of plants installed up to Nov. 1, 1904, was 521,000,000 gallons. Particulars of some of the types of filters and of the results obtained at some of the municipal plants are given.

WOOD STAVE PIPE.—National Wood Pipe Co., Sixth and Mateo Sts., Los Angeles, Cal., and 301 Market St., San Francisco, Cal. Paper; 9½ × 6½ ins.; pp. 36; illustrated.

Under the title "Extracts and Illustrations from Our Log-Book," this company has brought together a number of half-tones showing its pipe, and numerous testimonials regarding the pipe. Besides the continuous stave pipe, from 10 ins. to 10 ft. in diameter, the company has, for a number of years, supplied machine-banded stave pipe, 3 to 18 ins. in diameter.

DIARY FOR 1905.—Vest-Pocket form; 2⅝ × 5½ ins.; leather. Published for free distribution by the Westinghouse Companies Publishing Dept., Pittsburg, Pa.

Among the numerous memorandum books given away by large firms at this season of the year, this little volume is noteworthy for the considerable amount of data which is included relating to electrical engineering matters. Such matters as the power consumed by machine tools, the number of lamps of different type required to illuminate a given area, manner of treating persons suffering from electric shock, are among the many subjects treated.

TURBINES AND CENTRIFUGAL PUMPS.—P. Morris Co., Port Richmond Iron Works, Philadelphia, Pa. 8½ × 10½ ins.; pp. 52.

This catalogue describes some of the more important installations of pumping machinery made by this company, among which may be mentioned the plant of the Niagara Falls Power Company, the Niagara Falls Hydraulic Power & Manufacturing Co., the Canadian Niagara Power Company, the Utica Gas & Electric Company, the Shawinigan Water & Power Company. Some exceedingly large centrifugal pumping plants are also shown.

## SAND FILTRATION SYSTEM.

Pittsburgh, Pa.

Sealed bids or proposals for the construction of the necessary works in connection with the proposed sand filtration system and all appurtenances thereto, to be built in O'Hara Township and in the City of Pittsburgh, Allegheny County, Pennsylvania, and endorsed Proposals for "(*Title of Contract*), Contract No. ———, Bureau of Filtration, Department of Public Works," will be received at the office of the City Controller, Municipal Hall, Pittsburgh, Pennsylvania, until 10.00 A. M. on Wednesday, the eighth day of March, 1905, and will be publicly opened and read.

All bids shall be made upon the blank forms of proposal which, with contract and specifications, can be obtained at the office of the Bureau of Filtration in Municipal Hall, Pittsburgh, Pennsylvania.

Each proposal shall be accompanied by a legally executed bond, to the amount of 50 per cent. of the estimated cost of the contract, and executed by a security or trust company which has complied with the City Ordinances in reference to furnishing bonds for City Contracts, which bond shall be held as security for the execution and faithful performance of the contract. The work is divided into 10 contracts and the total amount of the bonds required is $3,000,000.

The specifications and blue-prints of Contract Plans may be seen at the office of the Bureau of Filtration and a limited edition can be obtained by bona-fide intending bidders on making a deposit varying from $10.00 to $25.00 for the specifications, and from $50.00 to $200.00 for the Contract Plans, which amounts will be returned on return of the specifications and plans in good condition.

Some of the important portions of the work are as follows: 3 reservoirs, covering 27.5 acres; 40 covered filters of 1 acre each; 1 covered filtered water reservoir of 6.3 acres; concrete steel conduits, 48 to 124 inches in diameter; gate chambers and superstructures; cofferdams and revetment slope paving; pumping station and accessories; high duty pumping engines and accessories.

Some of the leading quantities are approximately as follows:

850,000 cubic yards of excavation,
275,000 cubic yards of filter material,
200,000 cubic yards of concrete,
1,800 tons of cast-iron pipe,
5,400 tons of steel pipe,
39,000 square yards of macadam roadways,
20,000 square yards of asphalt pavement,
800 square yards of stone pavement,
4 centrifugal pumps with engines and condensers,
8 water tube boilers with stokers and economizers,
3 Wash water pumps,
Electrical apparatus and miscellaneous pumping station equipment,
2 high duty engines with water tube boilers and appurtenances.

The right is reserved to increase or decrease the amount of any class or portion of the work, to reject any or all proposals, or to accept any proposal as shall be deemed to be to the interest of the City of Pittsburgh.

WILLIAM B. HAYS,
Mayor.
EDWARD M. BIGELOW,
Director Department of Public Works.
MORRIS KNOWLES,
Chief Engineer,
Bureau of Filtration
5-1t

SEALED PROPOSALS will be received by the City of Kalamazoo, Mich., up to 12 o'clock noon, Monday, February 13, 1905, for about 49,000 square yards of street paving and about 24,000 linear feet cement combined curb and gutter, according to plans and specifications to be seen at the office of the City Engineer.

City reserves the right to reject any or all bids.

HARRY W. BUSH, City Clerk.
M. C. TAFT, City Engr.
Kalamazoo, Mich., Jan. 26, 1905. 5-1t

## FILLING AND GRADING.

Hartford, Conn.

Bids will be received at the office of The Connecticut River Bridge and Highway District Commission, 850 Main Street, Hartford, Connecticut, up to noon on February 27, 1905, for providing material and filling and grading railroad tracks, streets and approaches, involving approximately 325,000 cubic yards.

Plans and specifications and all information can be obtained of the Chief Engineer, Edwin Dwight Graves, at the aforesaid office. No plans can be sent out, as the conditions under which the work must be done require the personal investigation of bidders.

A certified check, payable to the Treasurer of The Connecticut River Bridge and Highway District, in the sum of Two Thousand ($2,000) Dollars, must accompany each bid.

A surety company's bond, satisfactory to the Commission, in the sum of about one-fourth the contract price, must be executed with the contract.

Bids will be received only from contractors who have a plant, or can control a plant, suitable for the work, and who have a successful record on previous work satisfactory to the Engineer.

The Commission reserves the right to reject any and all bids, and retains the right to accept any bid, which, in their judgment, is for the best interest of the Bridge District. Time is an important item in the railroad filling, involving about one-half the work, and will receive careful consideration in awarding the contract.

THE CONNECTICUT RIVER BRIDGE AND HIGHWAY DISTRICT,
MORGAN G. BULKELEY,
5-2t President, Board of Commissioners.

NOTICE FOR BIDS IN THE MATTER OF CONSTRUCTION OF DITCHES IN THE ESTABLISHMENT OF DRAINAGE DISTRICT NO. ONE OF BUENA VISTA COUNTY, IOWA, EXCEPTING WHERE SUCH DITCHES CROSS THE RIGHT OF WAY OF THE DUBUQUE & SIOUX CITY RAILROAD COMPANY.

To Whom it may concern:

The Board of Supervisors of Buena Vista County, Iowa, will, on the 7th day of March, 1905, at the office of the County Auditor in Storm Lake, Iowa, award the contract for the construction of ditches in the matter of drainage district No. One of said County.

The estimated No. of Cubic Yds. in section No. One thereof is 148,827, and the time fixed for the completion of the same is Dec 1, 1905.

The estimated No. of Cubic Yds. in section No. Two thereof is 47,274, and the time fixed for the completion thereof is Dec. 1, 1905.

The contract will be awarded to the lowest responsible bidder therefor, considering the work by sections as above, or as a whole, as is then deemed proper by this Board.

The right to reject any or all bids and readvertise the work is especially reserved.

Each person bidding shall deposit in cash or certified check a sum equal to Ten per cent. of the amount of his bid, said deposit to be returned to him if his bid is unsuccessful, and if successful to be retained as a guarantee only of his good faith in entering on said contract.

E. D. HOXSEY,
County Auditor.

Attest:
L. A. TORKELSON, Chairman. 5-4t

U. S. ENGINEER OFFICE, Room 415, Customhouse, Cincinnati, O., January 23, 1905.—Sealed proposals for building Lock No. 1, on Levisa Fork of Big Sandy River, about eight miles above Louisa, Ky., will be received here until 2.30 P. M., central standard time, February 25, 1905, and then publicly opened. Information furnished by LIEUT.-COL. ERNEST H. RUFFNER, Engrs. 4-4t

## SEWERS.

Mamaroneck, N. Y.

Sealed proposals for the Construction of Sewers will be received by the Board of Trustees of the Village of Mamaroneck, N. Y., at the Village Rooms until 8.30 o'clock P. M. of the Seventeenth day of February, 1905.

Approximately three and one-half (3½) miles of sewers are to be laid.

Each bid must be accompanied by a certified check for a sum equal to five (5) per cent. of the amount of the bid.

A Surety Company bond for an amount equal to fifty (50) per cent. of the bid will be required.

The Board of Trustees reserves the right to reject any and all bids.

Plans and specifications may be seen and bidding forms obtained at the office of the Village Clerk, Mamaroneck, N. Y., or at the office of the Engineer, 5 Court Street, White Plains, N. Y.

DANIEL WARREN,
President.
CHARLES W. BUCKTER,
Clerk. 5-3t

## SEWERS.

Wilkes-Barre, Pa.

Sealed proposals will be received at City Clerk's Office, Wilkes-Barre, Pa., until Friday, Feb. 24, 1905, at 12 o'clock noon, to furnish and deliver sewer pipe and construct sewers on forty-seven streets of said City.

For plans, specifications and all requirements address W. V. INGHAM, City Engineer.

Address proposals to FRED H. GATES, City Clerk. 5-3t

## BRIDGE.

Saginaw, Mich.

Sealed proposals will be received at the office of the County Road Commissioner for the County of Saginaw, Mich., for an Iron Bridge to be built across Pine Creek in Chapin Township, Saginaw County. Plans and Specifications are on file in the office of the County Road Comr. at Saginaw, Mich. Bids will be received up to Feb. 15, 1905.

J. W. KERNS,
5-2t County Road Commissioner.

## JAIL EQUIPMENT.

Office of the Camden County Building Committee, Court House, Camden, New Jersey. January 31, 1905.

Sealed proposals from parties experienced in such work, will be received at the office of the Camden County Building Committee until 2 o'clock P. M., on Wednesday, the fifteenth day of March, 1905, and then opened, for the Jail Equipment, including cells, gratings, etc., for the new Camden County Court House at Camden, New Jersey, in accordance with explanatory drawings and specifications, copies of which will be issued at the discretion of the Architects, Rankin, Kellogg & Crane, on and after January 31, 1905, by application at their office, 1012 Walnut Street, Philadelphia, Pa.

All applications must be accompanied by a certified check in amount $25.00, which will be held by the Architects until the return of the drawings and specifications in good condition, upon receipt of which the amount of certified check will be refunded.

CAMDEN COUNTY BUILDING COMMITTEE,
5-2t IRVING BUCKLE, Chairman.

OFFICE OF THE COMMISSIONERS, D. C., Washington, January 30, 1905.—Sealed proposals will be received at this office until 12 o'clock noon, February 20, 1905, for furnishing cast-iron pipe specials for siphons. Plans, specifications and necessary information may be obtained at this office. HENRY L. WEST, JOHN BIDDLE, Commissioners, D. C. 5-1t

## PENNSYLVANIA RAILROAD TUNNELS.

NOTICE TO CONTRACTORS.
PENNSYLVANIA, NEW JERSEY & NEW YORK RAILROAD
NORTH RIVER DIVISION.
CONSTRUCTION OF TUNNELS UNDER BERGEN HILL.

New York, N. Y., January 1st, 1905.

Sealed proposals for the works necessary to the construction of Tunnels under Bergen Hill within the State of New Jersey will be received at the office of the Secretary of the Company at 85 Cedar Street, New York City, N. Y., until 12 o'clock noon on the 6th day of March, 1905.

A copy of each of the following documents:

INSTRUCTIONS TO BIDDERS,
PROPOSAL,
SPECIFICATIONS,
CONTRACT,
CONTRACT DRAWINGS,

will be furnished to intending bidders on written request, accompanied by a certified check for $25.00 payable to the order of the Pennsylvania, New Jersey & New York Railroad Company, to be retained by the Company.

The documents above referred to will be furnished by the Chief Engineer at 1 West 34th Street, New York City, N. Y. A supplementary drawing exhibiting geological formation, so far as has been determined by borings, can be seen at this address.

The Contractor's Bond will be 10% of the amount of his bid. The Right is reserved to reject any or all bids.

A. J. COUNTY,
5-1t Secretary.

NOTICE TO CONTRACTORS.—Sealed bids for constructing Section 4 of the Washington-street Tunnel, from about 30 feet north of Hayward place to about 50 feet south of Franklin street, will be received by the undersigned at 15 Beacon street, Boston, Mass., until 12 o'clock M. of Tuesday, February 14, 1905. Specifications and forms of contract can be obtained at 15 Beacon street, 9th floor. The right to reject any and all bids, and to award the contract as is deemed to be for the best interest of the City of Boston is reserved. By order of the Boston Transit Commission,
B. LEIGHTON BEAL, Secretary. 5-2t

## SITUATIONS OPEN

WANTED.—An engineer to make precise traverse surveys and computations on same, near New York City, and also capable of making contour surveys. State age, experience and salary expected; references required as to ability and character. Address "I. A. 5," Engineering News, New York. 5-1t

A CAPABLE and experienced machine foremen in shop manufacturing dynamos and motors; must be able to handle men and get results with tools. State experience, age and salary expected. Address "G. A 5," Engineering News, New York. 5-2t

WANTED.—Sales Agent for large structural and ornamental iron concern; state age, experience and salary expected. Address "L. A. 5," Engineering News, New York. 5-2t

WANTED.—Young college graduate with surveying experience for a surveyor's office. Address "M. A. 5," Engineering News, New York. 5-1t

CHEMIST for a Mississippi Valley aluminum works, to act as assistant superintendent; must also be able to handle men; graduate of five or ten years experience wanted. Address "O. A. 5," Engineering News, New York. 5-1t

"WANT"
Advertisements in ENGINEERING NEWS cost 1½ cents a word an insertion for "Situations Wanted" and 2 cts. a word for "Situations Open" and "Miscellaneous Wants." Read them weekly as they will help you.